

# John M. Phillips

## DIRECTIONAL DRILLING SERVICES

End of well report

Fallon 1-10

API:11-075-20032

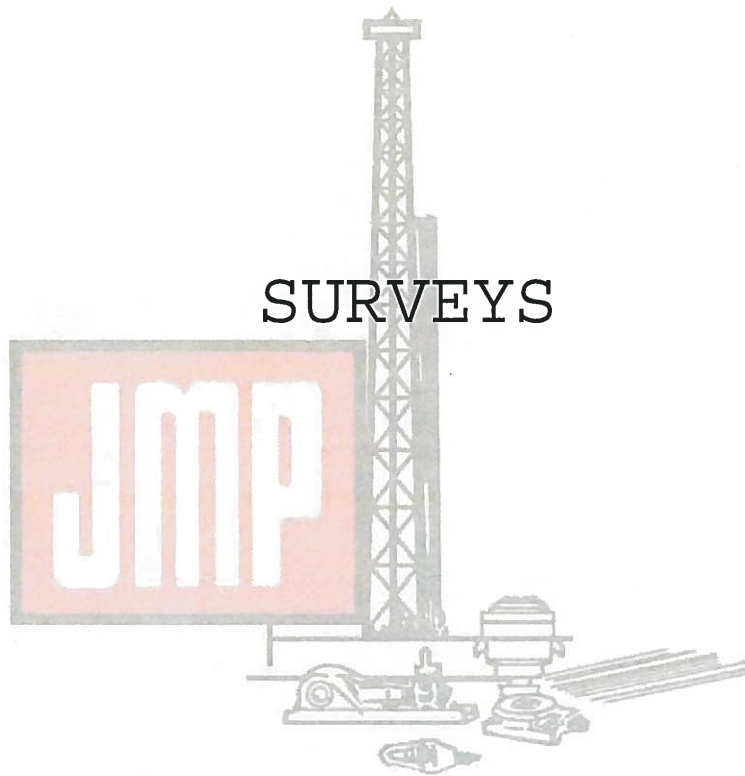
Paul Graham #7

Alta Mesa



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# SURVEYS



**CONFIDENTIAL**



**Job Number:** 201708-JMP-PGD-01  
**Company:** Paul Graham Drilling / Alta masa  
**Lease/Well:** Fallon 1-10  
**Location:** Idaho  
**Rig Name:** Paul Graham Drilling  
**State/County:** Idaho/ Payette  
**Country:** USA  
**API Number:** ?

**Elev. GL:** 0.00 ft    **RKB:** 0.00 ft  
**System:** US State Plane 1927 (Exact solution)  
**Group:** Idaho West 1103  
**Datum:** CLARKE 1866  
**Mag. Decl.:** 13.67° (C:\HawkEye\IGRF2015.MIF)  
**Grid Conv.:** -0.81810 W  
**Date:** Sunday, February 18, 2018

**JOHN M PHILLIPS DIRECTIONAL**  
**2755 DAWSON AVE SIGNAL HILL CALIFORNIA 90755**  
**CASEY SUMMITT**  
**530-219-2591 CASEY@JOHNMPHILLIPS.COM**  
**Work Surveys**

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Calculated by HawkEye Software  
 Minimum Curvature Method  
 Vertical Section Plane 202.00°  
 Northing (US ft): 869159.97    Easting (US ft): 190635.99  
 Latitude: 44°02'43.9200" N    Longitude: -116°55'35.7270" W  
 Well Location: 2080.94 FSL, 1577.67 FWL, Section 10, T8N, R5W, Boise Meridian, Payette County, ID  
 Direction Reference: Grid North



Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	NS (Ft)	EW (Ft)	VS (Ft)	Closure Dir Deg	DLS */100 Ft	Northing (US ft)	Easting (US ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	869159.97	190635.99
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	869159.97	190635.99
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	869159.97	190635.99
1141.00	0.20	229.70	1141.00	-0.05	-0.05	0.06	229.70	0.49	869159.93	190635.93
1235.00	2.20	201.50	1234.97	-1.83	-0.84	2.01	204.67	2.16	869158.14	190635.15
1328.00	4.80	202.00	1327.79	-7.10	-2.95	7.69	202.58	2.80	869152.87	190633.03
1422.00	7.50	205.60	1421.24	-16.28	-7.08	17.75	203.50	2.90	869143.69	190628.91
1515.00	10.50	208.60	1513.09	-29.20	-13.76	32.23	205.23	3.26	869130.78	190622.23
1609.00	12.70	206.70	1605.16	-45.95	-22.50	51.03	206.09	2.38	869114.02	190613.48
1702.00	15.50	207.80	1695.35	-66.08	-32.89	73.59	206.46	3.02	869093.89	190603.09
1796.00	18.00	203.10	1785.36	-90.56	-44.45	100.61	206.15	3.02	869069.42	190591.53
1890.00	20.00	202.30	1874.24	-118.79	-56.25	131.21	205.34	2.15	869041.18	190579.74
1984.00	24.20	200.30	1961.31	-151.75	-69.04	166.56	204.46	4.54	869008.23	190566.95
2078.00	26.80	199.20	2046.15	-189.84	-82.70	206.99	203.54	2.81	868970.14	190553.29
2172.00	29.60	199.70	2128.98	-231.71	-97.49	251.36	202.82	2.99	868928.26	190538.49
2266.00	32.20	199.90	2209.63	-277.13	-113.85	299.60	202.33	2.77	868882.85	190522.14
2360.00	34.70	202.50	2288.06	-325.41	-132.62	351.39	202.17	3.07	868834.57	190503.37
2454.00	34.40	202.00	2365.48	-374.75	-152.80	404.70	202.18	0.44	868785.23	190483.18
2548.00	34.70	202.40	2442.90	-424.10	-172.95	458.01	202.19	0.40	868735.87	190463.04
2682.00	34.90	202.50	2552.94	-494.78	-202.15	534.48	202.22	0.16	868665.19	190433.84
2735.00	34.60	203.00	2596.49	-522.64	-213.83	564.69	202.25	0.78	868637.33	190422.15
2829.00	34.50	203.70	2673.91	-571.59	-234.96	617.98	202.35	0.44	868588.39	190401.03
2923.00	34.50	204.20	2751.38	-620.24	-256.57	671.19	202.47	0.30	868539.73	190379.41
3017.00	34.60	204.90	2828.80	-668.73	-278.72	724.45	202.63	0.44	868491.24	190357.26
3110.00	34.00	204.10	2905.62	-716.42	-300.46	776.81	202.75	0.81	868443.55	190335.53
3204.00	33.70	204.00	2983.69	-764.24	-321.80	829.13	202.83	0.32	868395.74	190314.19
3298.00	33.80	204.60	3061.85	-811.83	-343.29	881.31	202.92	0.37	868348.14	190292.70
3392.00	33.40	204.30	3140.14	-859.18	-364.82	933.29	203.01	0.46	868300.79	190271.17
3486.00	33.10	204.70	3218.76	-906.08	-386.19	984.78	203.08	0.40	868253.89	190249.80
3579.00	32.60	204.80	3296.88	-951.90	-407.31	1035.16	203.17	0.54	868208.08	190228.68
3673.00	32.00	202.30	3376.34	-997.93	-427.38	1085.37	203.18	1.56	868162.04	190208.60
3767.00	31.90	202.70	3456.10	-1043.89	-446.42	1135.11	203.15	0.25	868116.09	190189.57
3861.00	31.70	202.40	3535.99	-1089.63	-465.42	1184.64	203.13	0.27	868070.34	190170.57
3954.00	31.40	201.80	3615.24	-1134.72	-483.72	1233.30	203.09	0.47	868025.26	190152.26
4048.00	31.40	202.00	3695.48	-1180.16	-501.99	1282.27	203.04	0.11	867979.81	190134.00
4110.00	29.80	202.10	3748.84	-1209.41	-513.84	1313.83	203.02	2.58	867950.56	190122.15
4204.00	27.80	202.50	3831.21	-1251.31	-531.02	1359.11	202.99	2.14	867908.67	190104.97
4298.00	26.20	203.30	3914.96	-1290.62	-547.61	1401.78	202.99	1.75	867869.35	190088.37

Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	NS (Ft)	EW (Ft)	VS (Ft)	Closure Dir Deg	DLS */100 Ft	Northing (US ft)	Easting (US ft)
4392.00	25.40	205.60	3999.59	-1327.86	-564.53	1442.65	203.03	1.36	867832.11	190071.45
4486.00	23.30	203.90	4085.23	-1363.04	-580.78	1481.35	203.08	2.35	867796.93	190055.21
4580.00	21.90	204.90	4172.01	-1395.94	-595.69	1517.44	203.11	1.54	867764.03	190040.30
4674.00	19.50	204.90	4259.93	-1426.08	-609.68	1550.63	203.15	2.55	867733.90	190026.31
4767.00	17.10	204.20	4348.22	-1452.63	-621.82	1579.80	203.17	2.59	867707.34	190014.16
4861.00	14.80	203.90	4438.60	-1476.22	-632.35	1605.61	203.19	2.45	867683.76	190003.63
4955.00	13.00	203.50	4529.84	-1496.89	-641.43	1628.18	203.20	1.92	867663.08	189994.55
5048.00	12.00	201.50	4620.64	-1515.48	-649.15	1648.30	203.19	1.17	867644.49	189986.84
5141.00	10.90	204.40	4711.79	-1532.48	-656.32	1666.76	203.18	1.33	867627.49	189979.66
5235.00	10.10	203.12	4804.21	-1548.16	-663.23	1683.88	203.19	0.89	867611.82	189972.75
5431.00	11.80	203.12	4996.64	-1582.40	-677.85	1721.10	203.19	0.87	867577.58	189958.14

**GEODETTIC INFORMATION**

<b>Latitude:</b> 44°02'43.9200" N <b>Dec. Latitude:</b> 44.04553333 <b>Longitude:</b> -116°55'35.7270" W <b>Dec. Longitude:</b> -116.92659083 <b>Geodetic Group:</b> US State Plane 1927 (Exact solution)	<b>Geodetic Zone:</b> Idaho West 1103 <b>Geodetic Datum:</b> NAD27 <b>Easting:</b> 190635.99 <b>Northing:</b> 869159.97 <b>Convergence:</b> -0.82
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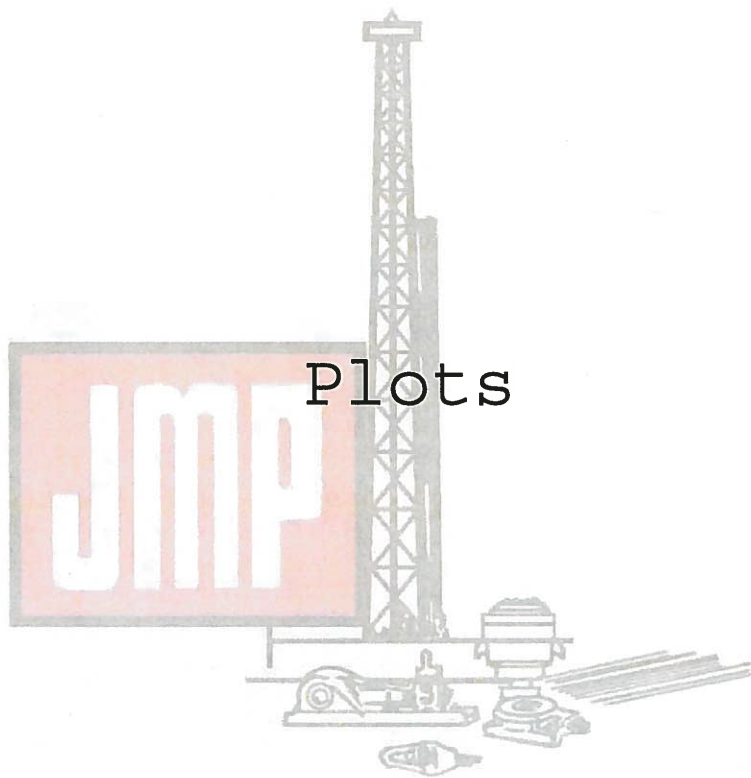
**MAGNETICS INFORMATION**

<b>Magnetic Model:</b> C:\HawkEye\IGRF2015.MIF <b>Date for Magnetics:</b> 01/31/2018 <b>Latitude:</b> 44°02'43.9200" N <b>Longitude:</b> -116°55'35.7270" W <b>Magnetic Declination:</b> 13.67 <b>Total Correction(Mag to Grid):</b> 14.49	<b>Field Strength (nt):</b> 52618 <b>B-X Component (nt):</b> 19590 <b>B-Y Component (nt):</b> 4764 <b>B-Z Component (nt):</b> 48602 <b>B-Horz Component (nt):</b> 20161 <b>Dip Angle:</b> 67.47
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**TARGET DATA**

Name	Shape	Easting (Ft)	Northing (Ft)	Subsea (Ft)	TVD (Ft)	NS (Ft)	EW (Ft)	Side A (Ft)	Side B (Ft)	Diameter (Ft)
Fallon 1-10 Target	CYLINDER	190210.0	868155.0	3374.0	3374.0	-1005.0	-426.0	-	-	100.0
Payette Target	CYLINDER	189966.3	867580.0	5000.0	5000.0	-1580.0	-669.7	-	-	100.0

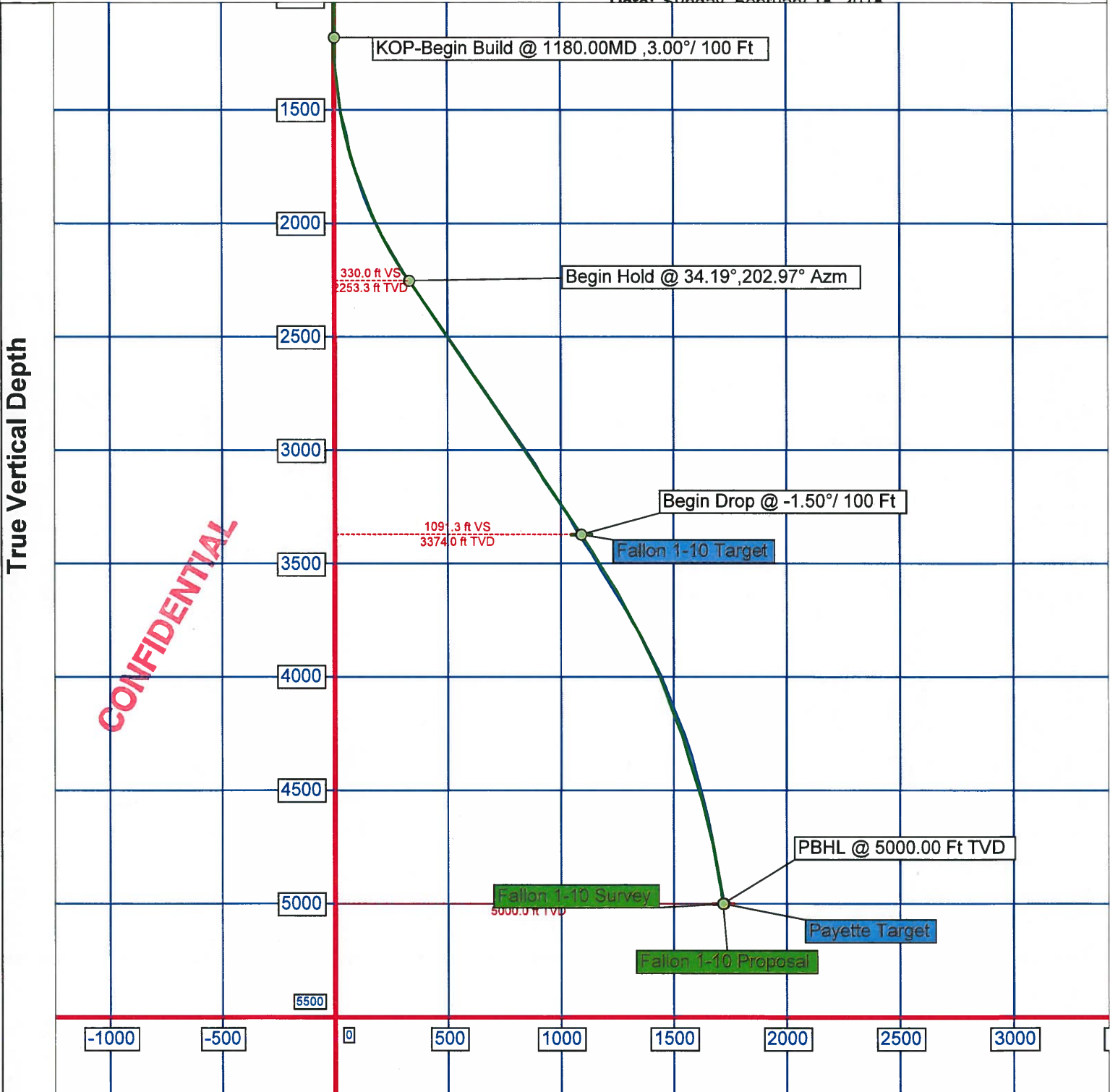
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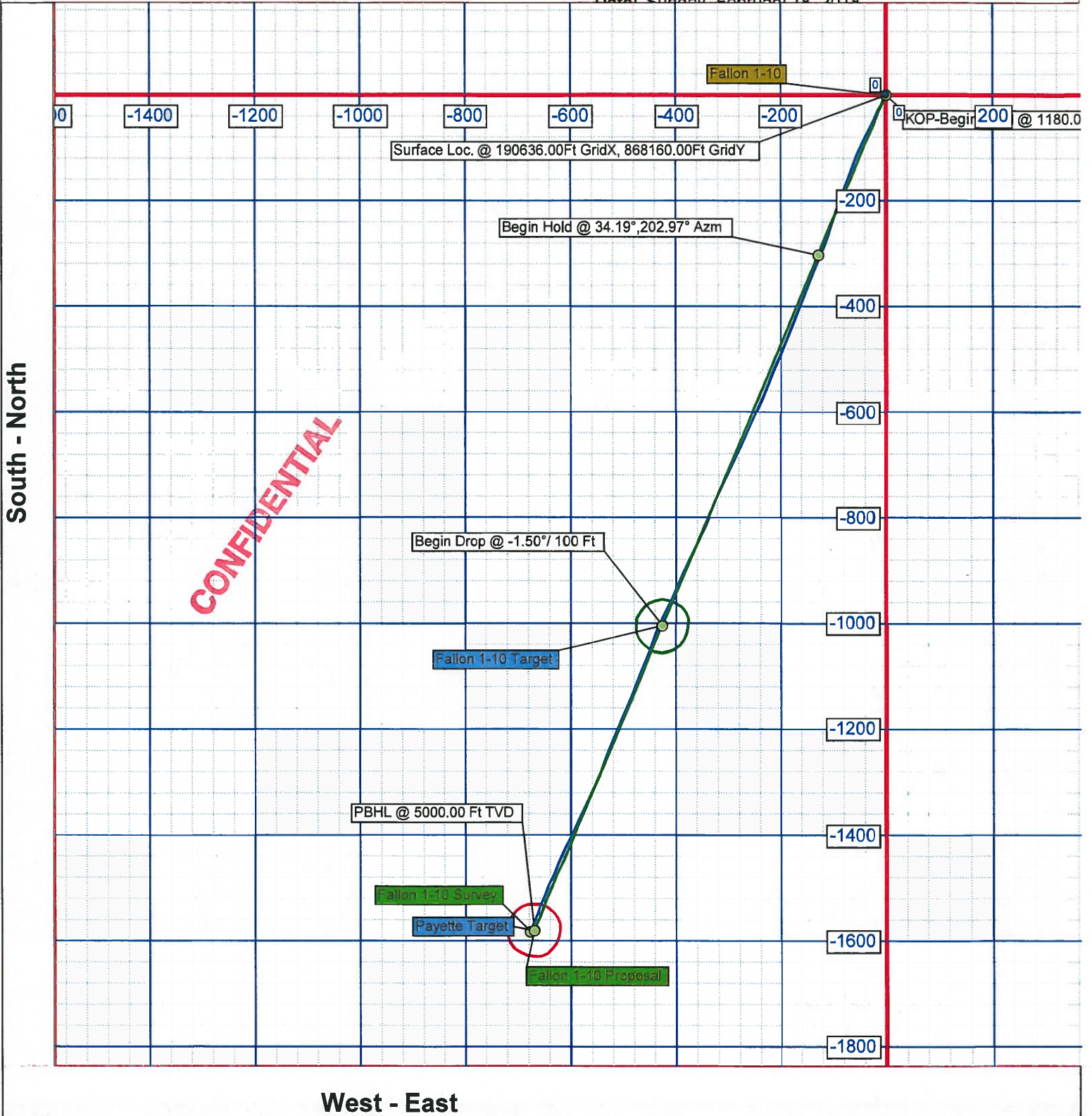
**Job Number:** 201708-JMP-PGD-01  
**Company:** Paul Graham Drilling / Alta masa  
**Lease/Well:** Fallon 1-10  
**Location:** Idaho  
**Rig Name:** Paul Graham Drilling  
**State/County:** Idaho/ Payette  
**Country:** USA  
**API Number:** ?

**Elevation (To MSL):** 0.00 ft  
**RKB:** 0.00 ft  
**Projection System:** US State Plane 1927 (Exact solution)  
**Projection Group:** Idaho West 1103  
**Projection Datum:** CLARKE 1866  
**Magnetic Declination:** 13.67  
**Grid Convergence:** -0.81810 W  
**Date:** Sunday, February 18, 2018



Job Number: 201708-JMP-PGD-01  
Company: Paul Graham Drilling / Alta masa  
Lease/Well: Fallon 1-10  
Location: Idaho  
Rig Name: Paul Graham Drilling  
State/County: Idaho/ Payette  
Country: USA  
API Number: ?

Elevation (To MSL): 0.00 ft  
RKB: 0.00 ft  
Projection System: US State Plane 1927 (Exact solution)  
Projection Group: Idaho West 1103  
Projection Datum: CLARKE 1866  
Magnetic Declination: 13.67  
Grid Convergence: -0.81810 W  
Date: Sunday, February 18, 2018



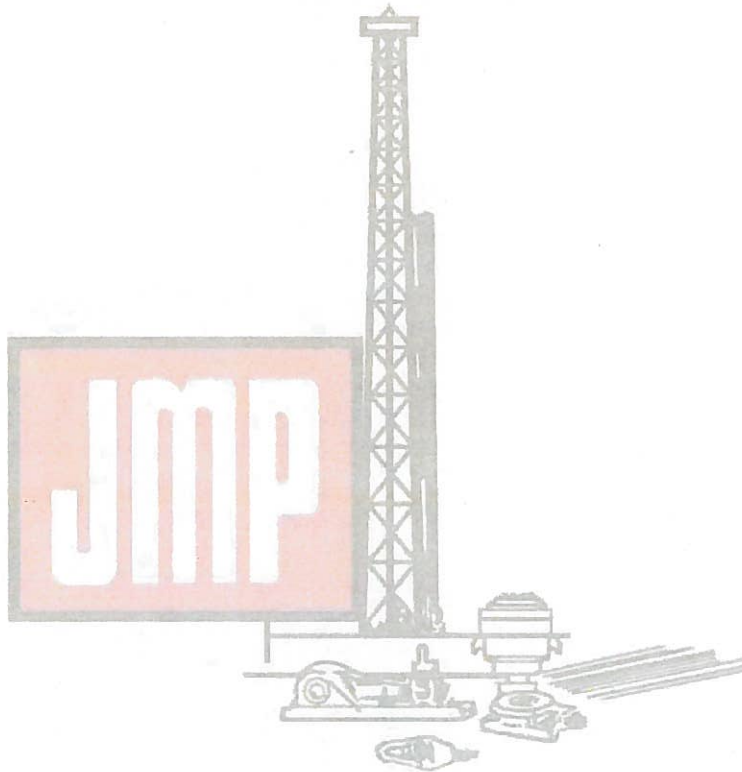
South - North

West - East



**CONFIDENTIAL**

Dailey reports







<b>JOB NO.:</b>	2082018	<b>Report Time:</b>	2400	1 of 11
<b>Company:</b>	Paul Graham drilling	<b>API JOB #</b>	11-075-20032	
<b>LOCATION:</b>	Idaho	<b>WORK ORDER#</b>		
<b>RIG NAME:</b>	PG#7	<b>FIELD:</b>	Fallon	
<b>STATE:</b>	Idaho	<b>Legal Desc.</b>	<b>Township-Section-Range</b>	
<b>COUNTY:</b>	Payette		-	
<b>WELL NAME:</b>	1-10			

**From Thursday, February 08, 2018 at 0000 to Thursday, February 08, 2018 at 2400**

DRILLING SUMMARY				Drilling Parameters						
Start Depth	0.00	Rotary Hours	0.00	WOB	0	Pick UP	0	Slack Off	0	SPM
End Depth	0.00	Circulating Hours	0.00	RAB	0	SPP	0	FlowRate	0-0	0
Total Drilled:	0.00	Avg. Total ROP:	NA	<b>Mud Data</b>						
Total Rotary Drilled:	0.00	Avg. Rotary ROP:	NA	Type		PV	0	SOLID	0	
Total Drilled Sliding:	0.00	Avg. Slide ROP:	NA	Weight	.00 PPG	GAS	0	YP	0	BHT°
Slide Hours:	0.00	Percent Rotary:	NA	Viscosity	0	SAND	0	PH	0	Flow T°
Below Rotary Hrs.	0.00	Percent Slide:	NA	Chlorides	0	WL	0			Oil %

PERSONNEL			CASING			BHA	
Lead Directional :	Steve Summitt		Size	lbf/Ft	Set Depth	N/A	
Second Directional :	Jesse Lindsey		508.0	.00	.00		
MWD Operator1							
MWD Operator2							
Directional Company:	John M Phillips						
Geologist:			Signature:				
Company Man:	Dave						
Incl. In:	0	Azm. In:	0	Incl. Out:	0	Azm. Out:	0

**GENERAL COMMENT**

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
8-Feb-18	00:00	24:00	24.00	1100.0	1100.0	Standby	arrived on location dropped tools/rig waiting on cementers

**CONFIDENTIAL**



<b>JOB NO.:</b>	2082018	<b>Report Time:</b>	2400	2 of 11
<b>Company:</b>	Paul Graham drilling	<b>API JOB #</b>	11-075-20032	
<b>LOCATION:</b>	Idaho	<b>WORK ORDER#</b>		
<b>RIG NAME:</b>	PG#7	<b>FIELD:</b>	Fallon	
<b>STATE:</b>	Idaho	<b>Legal Desc.</b>	<b>Township-Section-Range</b>	
<b>COUNTY:</b>	Payette		-	
<b>WELL NAME:</b>	1-10			

**From Friday, February 09, 2018 at 0000 to Friday, February 09, 2018 at 2400**

DRILLING SUMMARY				Drilling Parameters							
Start Depth	0.00	Rotary Hours	0.00	WOB	0	Pick UP	0	Slack Off	0	SPM	
End Depth	0.00	Circulating Hours	0.00	RAB	0	SPP	0	FlowRate	0-0	0	
Total Drilled:	0.00	Avg. Total ROP:	NA	<b>Mud Data</b>							
Total Rotary Drilled:	0.00	Avg. Rotary ROP:	NA	Type		PV	0	SOLID	0		
Total Drilled Sliding:	0.00	Avg. Slide ROP:	NA	Weight	.00 PPG	GAS	0	YP	0	BHT°	.0
Slide Hours:	0.00	Percent Rotary:	NA	Viscosity	0	SAND	0	PH	0	Flow T°	.0
Below Rotary Hrs.	2.00	Percent Slide:	NA	Chlorides	0	WL	0			Oil %	0


PERSONNEL		CASING			BHA		
Lead Directional :	Steve Summitt	Size	lbf/Ft	Set Depth	N/A		
Second Directional :	Jesse Lindsey	508.0	.00	.00			
MWD Operator1							
MWD Operator2							
Directional Company:	John M Phillips						
Geologist:		Signature:					
Company Man:	Dave						
Incl. In:	0	Azm. In:	0	Incl. Out:	0	Azm. Out:	0

**GENERAL COMMENT**

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
9-Feb-18	00:00	09:00	9.00	1100.0	1100.0	Standby	Standby
9-Feb-18	09:00	11:00	2.00	1100	1100	Other	Rig up MWD trailer/crew nipping up BOP
9-Feb-18	11:00	24:00	13.00	1100	1100	Standby	Standby

**CONFIDENTIAL**

# CONFIDENTIAL

	<b>JOB NO.:</b> 2082018	<b>Report Time:</b> 2400	3 of 11	
	<b>Company:</b> Paul Graham drilling	<b>API JOB #</b> 11-075-20032		
	<b>LOCATION:</b> Idaho	<b>WORK ORDER#</b>		
	<b>RIG NAME:</b> PG#7	<b>FIELD:</b> Fallon		
	<b>STATE:</b> Idaho	<b>Legal Desc.</b>	<b>Township-Section-Range</b>	
	<b>COUNTY:</b> Payette		-	
	<b>WELL NAME:</b> 1-10			


**From Saturday, February 10, 2018 at 0000 to Saturday, February 10, 2018 at 2400**

DRILLING SUMMARY				Drilling Parameters							
Start Depth	1100.00	Rotary Hours	6.00	WOB	12	Pick UP	40	Slack Off	38	SPM	
End Depth	1297.00	Circulating Hours	3.50	RAB	38	SPP	1400	FlowRate	0 - 420	180	
Total Drilled:	197.00	Avg. Total ROP:	29.19	<b>Mud Data</b>							
Total Rotary Drilled:	134.00	Avg. Rotary ROP:	22.33	Type		PV	0	SOLID	0		
Total Drilled Sliding:	63.00	Avg. Slide ROP:	84.00	Weight	.00 PPG	GAS	0	YP	0	BHT°	.0
Slide Hours:	0.75	Percent Rotary:	68.02	Viscosity	0	SAND	0	PH	0	Flow T°	.0
Below Rotary Hrs.	16.00	Percent Slide:	31.98	Chlorides	0	WL	0			Oil %	0

PERSONNEL				CASING			BHA	
Lead Directional :	Steve Summitt			Size	lbf/Ft	Set Depth	BHA # 1:XR+CPS, 6.5 MOTOR, UBHO, FLEX MONEL, FLEX MONEL, JARS, X-OVER, 4 Hevi, ,	
Second Directional :	Jesse Lindsey			508.0	.00	.00		
MWD Operator1								
MWD Operator2								
Directional Company:	John M Phillips							
Geologist:				Signature:				
Company Man:	Dave							
Incl. In:	0	Azm. In:	0	Incl. Out:	0	Azm. Out:	0	

GENERAL COMMENT
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Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
10-Feb-18	00:00	08:00	8.00	1100.0	1100.0	Standby	Standby
10-Feb-18	08:00	11:00	3.00	1100	1100	Drilling Cement	Drilling cement shoe
10-Feb-18	11:00	12:00	1.00	1100	1100	Circulating	Circulating
10-Feb-18	12:00	13:00	1.00	1100	1100	Rig Service-Inhole	Rig Service-Inhole
10-Feb-18	13:00	13:30	0.50	1100	1100	Other	Perform FIT test
10-Feb-18	13:30	15:15	1.75	1100	1180	Drilling	Drilling - (WOB:10.00;GPM :350.00;RPM:100)
10-Feb-18	15:15	16:45	1.50	1180	1180	Circulating	Circulating
10-Feb-18	16:45	18:00	1.25	1180	1180	POOH	POOH
10-Feb-18	18:00	19:30	1.50	1180	1180	Change BHA	Pick up DD tools/MWD
10-Feb-18	19:30	19:45	0.25	1180	1180	Other	Safety meeting/Rig crew break
10-Feb-18	19:45	20:00	0.25	1180	1180	Other	Set MWD
10-Feb-18	20:00	21:15	1.25	1180	1180	TIH	TIH
10-Feb-18	21:15	21:30	0.25	1180	1180	Other	Mwd test
10-Feb-18	21:30	22:00	0.50	1180	1180	TIH	TIH
10-Feb-18	22:00	22:15	0.25	1180	1182	Drilling	Drilling - (WOB:10.00;GPM :420.00;RPM:55)
10-Feb-18	22:15	22:45	0.50	1182	1224	Sliding	Sliding - (WOB:12.00;GPM :412;TFO:200))
10-Feb-18	22:45	23:45	1.00	1224	1276	Drilling	Drilling - (WOB:10.00;GPM :420.00;RPM:55)
10-Feb-18	23:45	24:00	0.25	1276	1297	Sliding	Sliding - (WOB:12.00;GPM :420;TFO:0))

	<b>JOB NO.:</b> 2082018	<b>Report Time:</b> 2400	4 of 11	
	<b>Company:</b> Paul Graham drilling	<b>API JOB #</b> 11-075-20032		
	<b>LOCATION:</b> Idaho	<b>WORK ORDER#</b>		
	<b>RIG NAME:</b> PG#7	<b>FIELD:</b> Fallon		
	<b>STATE:</b> Idaho	<b>Legal Desc.</b>	<b>Township-Section-Range</b> --	
	<b>COUNTY:</b> Payette			
	<b>WELL NAME:</b> 1-10			

From Sunday, February 11, 2018 at 0000 to Sunday, February 11, 2018 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	1297.00	Rotary Hours	10.25	WOB	22	Pick UP	46	Slack Off	44	SPM	
End Depth	2151.00	Circulating Hours	2.50	RAB	44	SPP	1650	FlowRate	412 - 445	200	
Total Drilled:	854.00	Avg. Total ROP:	48.80	<b>Mud Data</b>							
Total Rotary Drilled:	451.00	Avg. Rotary ROP:	44.00	Type		PV	0	SOLID	0		
Total Drilled Sliding:	403.00	Avg. Slide ROP:	55.59	Weight	.00 PPG	GAS	0	YP	0	BHT°	.0
Slide Hours:	7.25	Percent Rotary:	52.81	Viscosity	0	SAND	0	PH	0	Flow T°	.0
Below Rotary Hrs.	24.00	Percent Slide:	47.19	Chlorides	0	WL	0			Oil %	0

PERSONNEL				CASING			BHA
Lead Directional :	Steve Summitt			Size	Ibf/Ft	Set Depth	BHA # 1:XR+CPS, 6.5 MOTOR, UBHO, FLEX MONEL, FLEX MONEL, JARS, X-OVER, 4 Hevi ,
Second Directional :	Jesse Lindsey			508.0	.00	.00	
MWD Operator1							
MWD Operator2							
Directional Company:	John M Phillips						
Geologist:				Signature:			
Company Man:	Dave						
Incl. In:	0	Azm. In:	0	Incl. Out:	0	Azm. Out:	0

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
11-Feb-18	00:00	00:30	0.50	1297.0	1322.0	Sliding	Sliding - (WOB:12.00;GPM :412;TFO:205))
11-Feb-18	00:30	01:30	1.00	1322	1369	Drilling	Drilling - (WOB:10.00;GPM :420.00;RPM:55)
11-Feb-18	01:30	02:00	0.50	1369	1369	Other	Survey/Pump
11-Feb-18	02:00	03:00	1.00	1369	1401	Sliding	Sliding - (WOB:12.00;GPM :445;TFO:10))
11-Feb-18	03:00	03:30	0.50	1401	1401	Circulating	Circulating
11-Feb-18	03:30	04:15	0.75	1401	1401	Short Trip	Short Trip
11-Feb-18	04:15	04:30	0.25	1401	1401	Circulating	Circulating
11-Feb-18	04:30	04:45	0.25	1401	1421	Sliding	Sliding - (WOB:18.00;GPM :445;TFO:15))
11-Feb-18	04:45	05:45	1.00	1421	1463	Drilling	Drilling - (WOB:10.00;GPM :420.00;RPM:55)
11-Feb-18	05:45	06:15	0.50	1463	1514	Sliding	Sliding - (WOB:20.00;GPM :445;TFO:0))
11-Feb-18	06:15	07:00	0.75	1514	1556	Drilling	Drilling - (WOB:10.00;GPM :420.00;RPM:55)
11-Feb-18	07:00	08:00	1.00	1556	1597	Sliding	Sliding - (WOB:20.00;GPM :445.00;TFO:0)
11-Feb-18	08:00	08:30	0.50	1597	1619	Drilling	Drilling - (WOB:10.00;GPM :420.00;RPM:55)
11-Feb-18	08:30	09:00	0.50	1619	1619	Circulating	Circulating
11-Feb-18	09:00	10:00	1.00	1619	1619	Short Trip	wipe hole
11-Feb-18	10:00	10:45	0.75	1619	1650	Drilling	Drilling - (WOB:10.00;GPM :420.00;RPM:55)
11-Feb-18	10:45	11:45	1.00	1650	1700	Sliding	Sliding - (WOB:20.00;GPM :445;TFO:0))
11-Feb-18	11:45	13:00	1.25	1700	1743	Drilling	Drilling - (WOB:10.00;GPM :420.00;RPM:55)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
11-Feb-18	13:00	15:00	2.00	1743	1837	Drilling	Drilling - (WOB:10.00;GPM :420.00;RPM:55)
11-Feb-18	15:00	15:30	0.50	1837	1837	Circulating	Circulating
11-Feb-18	15:30	16:30	1.00	1837	1837	Short Trip	Short Trip
11-Feb-18	16:30	17:45	1.25	1837	1889	Sliding	Sliding - (WOB:20.00;GPM :445;TFO:5))
11-Feb-18	17:45	18:30	0.75	1889	1931	Drilling	Drilling - (WOB:12.00;GPM :420.00;RPM:55)
11-Feb-18	18:30	19:30	1.00	1931	1985	Sliding	Sliding - (WOB:20.00;GPM :445;TFO:347))
11-Feb-18	19:30	20:45	1.25	1985	2026	Drilling	Drilling - (WOB:12.00;GPM :420.00;RPM:55)
11-Feb-18	20:45	21:15	0.50	2026	2073	Sliding	Sliding - (WOB:22.00;GPM :445;TFO:352))
11-Feb-18	21:15	21:30	0.25	2073	2089	Drilling	Drilling - (WOB:12.00;GPM :420.00;RPM:55)
11-Feb-18	21:30	22:15	0.75	2089	2089	Circulating	Circulating
11-Feb-18	22:15	23:00	0.75	2089	2089	Short Trip	Short Trip
11-Feb-18	23:00	23:45	0.75	2089	2120	Drilling	Drilling - (WOB:12.00;GPM :420.00;RPM:55)
11-Feb-18	23:45	24:00	0.25	2120	2151	Sliding	Sliding - (WOB:22.00;GPM :445;TFO:0))

**CONFIDENTIAL**



<b>JOB NO.:</b> 2082018	<b>Report Time:</b> 2400	<b>5 of 11</b>
<b>Company:</b> Paul Graham drilling	<b>API JOB #</b> 11-075-20032	
<b>LOCATION:</b> Idaho	<b>WORK ORDER#</b>	
<b>RIG NAME:</b> PG#7	<b>FIELD:</b> Fallon	
<b>STATE:</b> Idaho	<b>Legal Desc.</b>	<b>Township-Section-Range</b>
<b>COUNTY:</b> Payette		-
<b>WELL NAME:</b> 1-10		

**From Monday, February 12, 2018 at 0000 to Monday, February 12, 2018 at 2400**

DRILLING SUMMARY				Drilling Parameters							
Start Depth	2151.00	Rotary Hours	13.50	WOB	12	Pick UP	46	Slack Off	44	SPM	
End Depth	3027.00	Circulating Hours	3.25	RAB	44	SPP	1900	FlowRate	420 - 445	200	
Total Drilled:	876.00	Avg. Total ROP:	55.62	Mud Data							
Total Rotary Drilled:	754.00	Avg. Rotary ROP:	55.85	Type		PV	0	SOLID	0		
Total Drilled Sliding:	122.00	Avg. Slide ROP:	54.22	Weight	.00 PPG	GAS	0	YP	0	BHT°	.0
Slide Hours:	2.25	Percent Rotary:	86.07	Viscosity	0	SAND	0	PH	0	Flow T°	.0
Below Rotary Hrs.	24.00	Percent Slide:	13.93	Chlorides	0	WL	0			Oil %	0


PERSONNEL				CASING			BHA
Lead Directional :	Steve Summitt			Size	lbf/Ft	Set Depth	BHA # 1:XR+CPS, 6.5 MOTOR, UBHO, FLEX MONEL, FLEX MONEL, JARS, X-OVER, 4 Hevi, ,
Second Directional :	Jesse Lindsey			508.0	.00	.00	
MWD Operator1							
MWD Operator2							
Directional Company:	John M Phillips						
Geologist:				Signature:			
Company Man:	Dave						
Incl. In:	0	Azm. In:	0	Incl. Out:	0	Azm. Out:	0

**GENERAL COMMENT**

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
12-Feb-18	00:00	00:15	0.25	2151.0	2171.0	Sliding	Sliding - (WOB:22.00;GPM :445;TFO:352))
12-Feb-18	00:15	01:15	1.00	2171	2213	Drilling	Drilling - (WOB:12.00;GPM :420.00;RPM:55)
12-Feb-18	01:15	02:00	0.75	2213	2264	Sliding	Sliding - (WOB:22.00;GPM :445.00;TFO:0)
12-Feb-18	02:00	03:00	1.00	2264	2307	Drilling	Drilling - (WOB:12.00;GPM :420.00;RPM:55)
12-Feb-18	03:00	03:45	0.75	2307	2348	Sliding	Sliding - (WOB:22.00;GPM :445;TFO:0))
12-Feb-18	03:45	04:00	0.25	2348	2370	Drilling	Drilling - (WOB:12.00;GPM :420.00;RPM:55)
12-Feb-18	04:00	04:45	0.75	2370	2370	Circulating	Circulating
12-Feb-18	04:45	05:30	0.75	2370	2370	Short Trip	Short Trip
12-Feb-18	05:30	06:00	0.50	2370	2402	Drilling	Drilling - (WOB:12.00;GPM :420.00;RPM:55)
12-Feb-18	06:00	06:15	0.25	2402	2402	Survey & Conn.	Survey & Conn.@2360_Inc 34.7°_Azm 202.5°
12-Feb-18	06:15	10:15	4.00	2402	2620	Drilling	Drilling - (WOB:12.00;GPM :420.00;RPM:55)
12-Feb-18	10:15	11:00	0.75	2620	2620	Circulating	Circulating
12-Feb-18	11:00	13:00	2.00	2620	2620	Short Trip	Short Trip to shoe
12-Feb-18	13:00	16:00	3.00	2620	2766	Drilling	Drilling - (WOB:12.00;GPM :420.00;RPM:55)
12-Feb-18	16:00	16:30	0.50	2766	2776	Sliding	Sliding - (WOB:14.00;GPM :445;TFO:90))
12-Feb-18	16:30	17:30	1.00	2776	2839	Drilling	Drilling - (WOB:12.00;GPM :420.00;RPM:55)
12-Feb-18	17:30	18:00	0.50	2839	2839	Circulating	Circulating
12-Feb-18	18:00	18:45	0.75	2839	2839	Short Trip	Short Trip

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
12-Feb-18	18:45	19:30	0.75	2839	2871	Drilling	Drilling - (WOB:12.00;GPM :420.00;RPM:55)
12-Feb-18	19:30	19:45	0.25	2871	2871	Survey & Conn.	Survey & Conn.@2829_Inc 34.5°_Azimuth 203.7°
12-Feb-18	19:45	20:15	0.50	2871	2901	Drilling	Drilling - (WOB:12.00;GPM :420.00;RPM:55)
12-Feb-18	20:15	21:00	0.75	2901	2901	Circulating	Circulating
12-Feb-18	21:00	21:45	0.75	2901	2965	Drilling	Drilling - (WOB:12.00;GPM :420.00;RPM:55)
12-Feb-18	21:45	22:00	0.25	2965	2965	Survey & Conn.	Survey & Conn.@2923_Inc 34.5°_Azimuth 204.2°
12-Feb-18	22:00	22:45	0.75	2965	3027	Drilling	Drilling - (WOB:12.00;GPM :420.00;RPM:55)
12-Feb-18	22:45	23:15	0.50	3027	3027	Circulating	Circulating
12-Feb-18	23:15	24:00	0.75	3027	3027	Short Trip	Short Trip

**CONFIDENTIAL**

	<b>JOB NO.:</b> 2082018	<b>Report Time:</b> 2400	6 of 11	
	<b>Company:</b> Paul Graham drilling	<b>API JOB #</b> 11-075-20032		
	<b>LOCATION:</b> Idaho	<b>WORK ORDER#</b>		
	<b>RIG NAME:</b> PG#7	<b>FIELD:</b> Fallon		
	<b>STATE:</b> Idaho	<b>Legal Desc.</b>	<b>Township-Section-Range</b>	
	<b>COUNTY:</b> Payette			
	<b>WELL NAME:</b> 1-10			

From Tuesday, February 13, 2018 at 0000 to Tuesday, February 13, 2018 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	3027.00	Rotary Hours	11.25	WOB	12	Pick UP	65	Slack Off	58	SPM	
End Depth	3683.00	Circulating Hours	3.42	RAB	62	SPP	2165	FlowRate	420 - 445	200	
Total Drilled:	656.00	Avg. Total ROP:	54.67	<b>Mud Data</b>							
Total Rotary Drilled:	623.00	Avg. Rotary ROP:	55.38	Type		PV	0	SOLID	0		
Total Drilled Sliding:	33.00	Avg. Slide ROP:	44.00	Weight	.00 PPG	GAS	0	YP	0	BHT°	
Slide Hours:	0.75	Percent Rotary:	94.97	Viscosity	0	SAND	0	PH	0	Flow T°	
Below Rotary Hrs.	24.00	Percent Slide:	5.03	Chlorides	0	WL	0		Oil %	0	

PERSONNEL				CASING			BHA	
Lead Directional :	Steve Summitt			Size	lbf/Ft	Set Depth	BHA # 1:XR+CPS, 6.5 MOTOR, UBHO, FLEX MONEL, FLEX MONEL, JARS, X-OVER, 4 Hevi, ,	
Second Directional :	Jesse Lindsey			508.0	.00	.00		
MWD Operator1								
MWD Operator2								
Directional Company:	John M Phillips							
Geologist:				Signature:				
Company Man:	Dave							
Incl. In:	0	Azm. In:	0	Incl. Out:	0	Azm. Out:	0	


GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
13-Feb-18	00:00	01:15	1.25	3027.0	3027.0	Circulating	Circulating/Hole packing off
13-Feb-18	01:15	01:45	0.50	3027	3058	Drilling	Drilling - (WOB:12.00;GPM :420.00;RPM:55)
13-Feb-18	01:45	02:00	0.25	3058	3071	Sliding	Sliding - (WOB:14.00;GPM :445.00;TFO:90)
13-Feb-18	02:00	03:15	1.25	3071	3152	Drilling	Drilling - (WOB:12.00;GPM :420.00;RPM:55)
13-Feb-18	03:15	03:30	0.25	3152	3152	Survey & Conn.	Survey & Conn.@3110_Inc 34°_Azm 204.1°
13-Feb-18	03:30	04:00	0.50	3152	3184	Drilling	Drilling - (WOB:12.00;GPM :420.00;RPM:55)
13-Feb-18	04:00	05:00	1.00	3184	3184	Circulating	Circulating
13-Feb-18	05:00	10:45	5.75	3184	3184	Short Trip	Short Trip to shoe/slip & cut
13-Feb-18	10:45	11:30	0.75	3184	3246	Drilling	Drilling - (WOB:12.00;GPM :420.00;RPM:55)
13-Feb-18	11:30	13:45	2.25	3246	3340	Drilling	Drilling - (WOB:12.00;GPM :420.00;RPM:55)
13-Feb-18	13:45	14:15	0.50	3340	3371	Drilling	Drilling - (WOB:12.00;GPM :420.00;RPM:55)
13-Feb-18	14:15	14:40	0.42	3371	3371	Circulating	Circulating
13-Feb-18	14:40	15:30	0.83	3371	3371	Short Trip	Short Trip
13-Feb-18	15:30	16:45	1.25	3371	3433	Drilling	Drilling - (WOB:12.00;GPM :420.00;RPM:55)
13-Feb-18	16:45	17:00	0.25	3433	3433	Survey & Conn.	Survey & Conn.@3392_Inc 33.4°_Azm 204.3°
13-Feb-18	17:00	18:30	1.50	3433	3527	Drilling	Drilling - (WOB:12.00;GPM :420.00;RPM:55)
13-Feb-18	18:30	18:45	0.25	3527	3527	Survey & Conn.	Survey & Conn.@3486_Inc 33.1°_Azm °
13-Feb-18	18:45	19:30	0.75	3527	3589	Drilling	Drilling - (WOB:12.00;GPM :420.00;RPM:55)



Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
13-Feb-18	19:30	20:15	0.75	3589	3589	Circulating	Circulating
13-Feb-18	20:15	21:30	1.25	3589	3589	Short Trip	Short Trip
13-Feb-18	21:30	22:30	1.00	3589	3621	Drilling	Drilling - (WOB:12.00;GPM :420.00;RPM:55)
13-Feb-18	22:30	23:00	0.50	3621	3641	Sliding	Sliding - (WOB:18.00;GPM :445;TFO:255))
13-Feb-18	23:00	24:00	1.00	3641	3683	Drilling	Drilling - (WOB:12.00;GPM :420.00;RPM:55)

**CONFIDENTIAL**

	<b>JOB NO.:</b> 2082018	<b>Report Time:</b> 2400	7 of 11	
	<b>Company:</b> Paul Graham drilling	<b>API JOB #</b> 11-075-20032		
	<b>LOCATION:</b> Idaho	<b>WORK ORDER#</b>		
	<b>RIG NAME:</b> PG#7	<b>FIELD:</b> Fallon		
	<b>STATE:</b> Idaho	<b>Legal Desc.</b>	<b>Township-Section-Range</b>	
	<b>COUNTY:</b> Payette			
	<b>WELL NAME:</b> 1-10			


From Wednesday, February 14, 2018 at 0000 to Wednesday, February 14, 2018 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	3683.00	Rotary Hours	12.25	WOB	12	Pick UP	65	Slack Off	58	SPM	
End Depth	3968.00	Circulating Hours	5.00	RAB	62	SPP	2165	FlowRate	420 - 420	200	
Total Drilled:	285.00	Avg. Total ROP:	23.27	<b>Mud Data</b>							
Total Rotary Drilled:	285.00	Avg. Rotary ROP:	23.27	Type		PV	0	SOLID	0		
Total Drilled Sliding:	0.00	Avg. Slide ROP:	NA	Weight	.00 PPG	GAS	0	YP	0	BHT°	.0
Slide Hours:	0.00	Percent Rotary:	100.00	Viscosity	0	SAND	0	PH	0	Flow T°	.0
Below Rotary Hrs.	24.00	Percent Slide:	.00	Chlorides	0	WL	0			Oil %	0

PERSONNEL				CASING			BHA	
Lead Directional :	Steve Summitt			Size	lbf/Ft	Set Depth	BHA # 1:XR+CPS, 6.5 MOTOR, UBHO, FLEX MONEL, FLEX MONEL, JARS, X-OVER, 4 Hevi, ,	
Second Directional :	Jesse Lindsey			508.0	.00	.00		
MWD Operator1								
MWD Operator2								
Directional Company:	John M Phillips							
Geologist:				Signature:				
Company Man:	Dave							
Incl. In:	32	Azm. In:	202.3	Incl. Out:	31.5	Azm. Out:	201.7	

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
14-Feb-18	00:00	01:30	1.50	3683.0	3715.0	Drilling	Drilling - (WOB:12.00;GPM :420.00;RPM:55)
14-Feb-18	01:30	02:45	1.25	3715	3715	Circulating	Circulating
14-Feb-18	02:45	03:45	1.00	3715	3715	Short Trip	Short Trip
14-Feb-18	03:45	06:30	2.75	3715	3809	Drilling	Drilling - (WOB:12.00;GPM :420.00;RPM:55)
14-Feb-18	06:30	06:45	0.25	3809	3809	Survey & Conn.	Survey & Conn.@3767_Inc 31.9°_Az 202.7°
14-Feb-18	06:45	07:30	0.75	3809	3840	Drilling	Drilling - (WOB:12.00;GPM :420.00;RPM:55)
14-Feb-18	07:30	10:00	2.50	3840	3840	Circulating	Circulating
14-Feb-18	10:00	11:15	1.25	3840	3840	Short Trip	Short Trip
14-Feb-18	11:15	11:30	0.25	3840	3840	Reaming	safty ream from 3810 to 3840
14-Feb-18	11:30	17:15	5.75	3840	3965	Drilling	Drilling - (WOB:12.00;GPM :420.00;RPM:55)
14-Feb-18	17:15	17:30	0.25	3965	3965	Circulating	Circulating
14-Feb-18	17:30	18:00	0.50	3965	3965	Short Trip	Short Trip
14-Feb-18	18:00	19:30	1.50	3965	3968	Drilling	Drilling - (WOB:12.00;GPM :420.00;RPM:55)
14-Feb-18	19:30	20:15	0.75	3968	3968	Circulating	Circulating
14-Feb-18	20:15	23:00	2.75	3968	3968	POOH	Pooh
14-Feb-18	23:00	23:45	0.75	3968	3968	Other	Change bit
14-Feb-18	23:45	24:00	0.25	3968	3968	TIH	TIH

	<b>JOB NO.:</b> 2082018	<b>Report Time:</b> 2400	<b>8 of 11</b>	
	<b>Company:</b> Paul Graham drilling	<b>API JOB #</b> 11-075-20032		
	<b>LOCATION:</b> Idaho	<b>WORK ORDER#</b>		
	<b>RIG NAME:</b> PG#7	<b>FIELD:</b> Fallon		
	<b>STATE:</b> Idaho	<b>Legal Desc.</b>	<b>Township-Section-Range</b> --	
	<b>COUNTY:</b> Payette			
	<b>WELL NAME:</b> 1-10			

From Thursday, February 15, 2018 at 0000 to Thursday, February 15, 2018 at 2400

DRILLING SUMMARY				Drilling Parameters									
Start Depth	3968.00	Rotary Hours	10.83	WOB	21	Pick UP	65	Slack Off	58	SPM			
End Depth	4559.00	Circulating Hours	3.75	RAB	60	SPP	2275	FlowRate	420 - 445	200			
Total Drilled:	622.00	Avg. Total ROP:	41.47	<b>Mud Data</b>									
Total Rotary Drilled:	454.00	Avg. Rotary ROP:	41.91	Type		PV	0	SOLID	0				
Total Drilled Sliding:	168.00	Avg. Slide ROP:	40.32	Weight	.00 PPG	GAS	0	YP	0	BHT°	.0		
Slide Hours:	4.17	Percent Rotary:	72.99	Viscosity	0	SAND	0	PH	0	Flow T°	.0		
Below Rotary Hrs.	24.00	Percent Slide:	27.01	Chlorides	0	WL	0			Oil %	0		

PERSONNEL				CASING			BHA		
Lead Directional :	Steve Summitt			Size	lbf/Ft	Set Depth	BHA # 1:XR+CPS, 6.5 MOTOR, UBHO, FLEX MONEL, FLEX MONEL, JARS, X-OVER, 4 Hevi, .		
Second Directional :	Jesse Lindsey			508.0	.00	.00			
MWD Operator1									
MWD Operator2									
Directional Company:	John M Phillips								
Geologist:				Signature:					
Company Man:	Dave								
Incl. In:	31.5	Azm. In:	201.7	Incl. Out:	23.3	Azm. Out:	203.9		


GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
15-Feb-18	00:00	02:30	2.50	3968.0	3968.0	TIH	TIH
15-Feb-18	02:30	03:30	1.00	3968	3968	Circulating	Circulating
15-Feb-18	03:30	04:15	0.75	3968	3996	Drilling	Drilling - (WOB:12.00;GPM :420.00;RPM:55)
15-Feb-18	04:15	04:30	0.25	3996	3996	Survey & Conn.	Survey & Conn.@31.4_Inc 201.8°_Azm °
15-Feb-18	04:30	06:00	1.50	3996	4058	Drilling	Drilling - (WOB:12.00;GPM :420.00;RPM:55)
15-Feb-18	06:00	07:00	1.00	4058	4089	Sliding	Sliding - (WOB:18.00;GPM :445;TFO:180))
15-Feb-18	07:00	09:00	2.00	4089	4152	Drilling	Drilling - (WOB:20.00;GPM :420.00;RPM:55)
15-Feb-18	09:00	09:45	0.75	4152	4152	Circulating	Circulating
15-Feb-18	09:45	10:15	0.50	4152	4152	Short Trip	Short Trip
15-Feb-18	10:15	11:25	1.17	4152	4183	Sliding	Sliding - (WOB:21.00;GPM :445;TFO:180))
15-Feb-18	11:25	15:30	4.08	4183	4340	Drilling	Drilling - (WOB:20.00;GPM :420.00;RPM:55)
15-Feb-18	15:30	16:00	0.50	4309	4340	Sliding	Sliding - (WOB:21.00;GPM :445;TFO:180))
15-Feb-18	16:00	16:45	0.75	4340	4340	Circulating	Circulating
15-Feb-18	16:45	17:45	1.00	4340	4340	Short Trip	Short Trip
15-Feb-18	17:45	18:00	0.25	4340	4340	Rig Service-Inhole	Rig Service-Inhole
15-Feb-18	18:00	19:15	1.25	4340	4432	Drilling	Drilling - (WOB:20.00;GPM :420.00;RPM:55)
15-Feb-18	19:15	20:00	0.75	4432	4476	Sliding	Sliding - (WOB:21.00;GPM :445.00;TFO:180)
15-Feb-18	20:00	21:15	1.25	4476	4528	Drilling	Drilling - (WOB:20.00;GPM :420.00;RPM:55)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
15-Feb-18	21:15	22:00	0.75	4528	4559	Sliding	Sliding - (WOB:21.00;GPM :445;TFO:195))
15-Feb-18	22:00	22:30	0.50	4559	4559	Circulating	Circulating
15-Feb-18	22:30	23:30	1.00	4559	4559	Short Trip	Short Trip
15-Feb-18	23:30	24:00	0.50	4559	4559	Circulating	Circulating

**CONFIDENTIAL**

# CONFIDENTIAL

	<b>JOB NO.:</b> 2082018	<b>Report Time:</b> 2400	9 of 11	
	<b>Company:</b> Paul Graham drilling	<b>API JOB #</b> 11-075-20032		
	<b>LOCATION:</b> Idaho	<b>WORK ORDER#</b>		
	<b>RIG NAME:</b> PG#7	<b>FIELD:</b> Fallon		
	<b>STATE:</b> Idaho	<b>Legal Desc.</b>	<b>Township-Section-Range</b> --	
	<b>COUNTY:</b> Payette			
	<b>WELL NAME:</b> 1-10			

From Friday, February 16, 2018 at 0000 to Friday, February 16, 2018 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	4559.00	Rotary Hours	8.58	WOB	21	Pick UP	92	Slack Off	76	SPM	
End Depth	5135.00	Circulating Hours	3.08	RAB	82	SPP	2275	FlowRate	420 - 445	200	
Total Drilled:	576.00	Avg. Total ROP:	32.00	<b>Mud Data</b>							
Total Rotary Drilled:	309.00	Avg. Rotary ROP:	36.00	Type		PV	0	SOLID	0		
Total Drilled Sliding:	267.00	Avg. Slide ROP:	28.35	Weight	.00 PPG	GAS	0	YP	0	BHT°	.0
Slide Hours:	9.42	Percent Rotary:	53.65	Viscosity	0	SAND	0	PH	0	Flow T°	.0
Below Rotary Hrs.	24.00	Percent Slide:	46.35	Chlorides	0	WL	0			Oil %	0

PERSONNEL				CASING			BHA	
Lead Directional :	Steve Summitt			Size	lbf/Ft	Set Depth	BHA # 1:XR+CPS, 6.5 MOTOR, UBHO, FLEX MONEL, FLEX MONEL, JARS, X-OVER, 4 Hevi, ,	
Second Directional :	Jesse Lindsey			508.0	.00	.00		
MWD Operator1								
MWD Operator2								
Directional Company:	John M Phillips							
Geologist:				Signature:				
Company Man:	Dave							
Incl. In:	23.3	Azm. In:	203.9	Incl. Out:	12	Azm. Out:	201.5	

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
16-Feb-18	00:00	01:45	1.75	4559.0	4622.0	Drilling	Drilling - (WOB:20.00;GPM :420.00;RPM:55)
16-Feb-18	01:45	03:30	1.75	4622	4668	Sliding	Sliding - (WOB:21.00;GPM :445.00;TFO:195)
16-Feb-18	03:30	04:45	1.25	4668	4715	Drilling	Drilling - (WOB:20.00;GPM :420.00;RPM:55)
16-Feb-18	04:45	05:30	0.75	4715	4715	Circulating	Circulating
16-Feb-18	05:30	06:45	1.25	4715	4715	Short Trip	Short Trip
16-Feb-18	06:45	08:40	1.92	4715	4766	Sliding	Sliding - (WOB:21.00;GPM :445;TFO:190))
16-Feb-18	08:40	09:45	1.08	4766	4809	Drilling	Drilling - (WOB:20.00;GPM :420.00;RPM:55)
16-Feb-18	09:45	11:10	1.42	4809	4872	Sliding	Sliding - (WOB:21.00;GPM :445;TFO:0))
16-Feb-18	11:10	12:45	1.58	4872	4872	Circulating	Circulating
16-Feb-18	12:45	13:40	0.92	4872	4872	Short Trip	Short Trip
16-Feb-18	13:40	14:10	0.50	4872	4872	Rig Service-Inhole	Rig Service-Inhole Rotary Table
16-Feb-18	14:10	15:45	1.58	4872	4902	Sliding	Sliding - (WOB:21.00;GPM :445;TFO:180))
16-Feb-18	15:45	18:00	2.25	4902	4996	Drilling	Drilling - (WOB:20.00;GPM :420.00;RPM:55)
16-Feb-18	18:00	19:15	1.25	4996	5027	Sliding	Sliding - (WOB:21.00;GPM :445.00;TFO:180)
16-Feb-18	19:15	19:30	0.25	5027	5027	Circulating	Circulating
16-Feb-18	19:30	20:15	0.75	5027	5027	Short Trip	Short Trip
16-Feb-18	20:15	22:30	2.25	5027	5089	Drilling	Drilling - (WOB:20.00;GPM :420.00;RPM:55)
16-Feb-18	22:30	24:00	1.50	5089	5135	Sliding	Sliding - (WOB:21.00;GPM :445.00;TFO:180)

# CONFIDENTIAL



<b>JOB NO.:</b> 2082018	<b>Report Time:</b> 2400	<b>10 of 11</b>
<b>Company:</b> Paul Graham drilling	<b>API JOB #</b> 11-075-20032	
<b>LOCATION:</b> Idaho	<b>WORK ORDER#</b>	
<b>RIG NAME:</b> PG#7	<b>FIELD:</b> Fallon	
<b>STATE:</b> Idaho	<b>Legal Desc.</b>	<b>Township-Section-Range</b>
<b>COUNTY:</b> Payette		-
<b>WELL NAME:</b> 1-10		

**From Saturday, February 17, 2018 at 0000 to Saturday, February 17, 2018 at 2400**

DRILLING SUMMARY				Drilling Parameters							
Start Depth	5135.00	Rotary Hours	19.00	WOB	21	Pick UP	93	Slack Off	77	SPM	
End Depth	5431.00	Circulating Hours	3.50	RAB	83	SPP	2275	FlowRate	420 - 420	200	
Total Drilled:	296.00	Avg. Total ROP:	15.58	<b>Mud Data</b>							
Total Rotary Drilled:	296.00	Avg. Rotary ROP:	15.58	Type		PV	0	SOLID	0		
Total Drilled Sliding:	0.00	Avg. Slide ROP:	NA	Weight	.00 PPG	GAS	0	YP	0	BHT°	.0
Slide Hours:	0.00	Percent Rotary:	100.00	Viscosity	0	SAND	0	PH	0	Flow T°	.0
Below Rotary Hrs.	24.00	Percent Slide:	.00	Chlorides	0	WL	0	Oil %	0		

PERSONNEL				CASING			BHA			
Lead Directional :	Steve Summitt			Size	lbf/Ft	Set Depth	BHA # 1:XR+CPS, 6.5 MOTOR, UBHO, FLEX MONEL, FLEX MONEL, JARS, X-OVER, 4 Hevi, ,			
Second Directional :	Jesse Lindsey			508.0	.00	.00				
MWD Operator1										
MWD Operator2										
Directional Company:	John M Phillips									
Geologist:				Signature:						
Company Man:	Dave									
Incl. In:	12	Azm. In:	201.5	Incl. Out:	0	Azm. Out:	0			

**GENERAL COMMENT**

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
17-Feb-18	00:00	01:45	1.75	5135.0	5183.0	Drilling	Drilling - (WOB:20.00;GPM :420.00;RPM:55)
17-Feb-18	01:45	03:00	1.25	5183	5183	Circulating	Circulating
17-Feb-18	03:00	03:45	0.75	5183	5183	Short Trip	Short Trip
17-Feb-18	03:45	06:00	2.25	5183	5276	Drilling	Drilling - (WOB:20.00;GPM :420.00;RPM:55)
17-Feb-18	06:00	06:45	0.75	5276	5290	Drilling	Drilling - (WOB:30.00;GPM :420.00;RPM:)
17-Feb-18	06:45	09:45	3.00	5290	5350	Drilling	drilling
17-Feb-18	09:45	10:45	1.00	5350	5350	Circulating	Circulating
17-Feb-18	10:45	11:30	0.75	5350	5350	Short Trip	Short Trip
17-Feb-18	11:30	16:45	5.25	5350	5390	Drilling	Drilling - (WOB:21.00;GPM :420.00;RPM:55)
17-Feb-18	16:45	17:15	0.50	5390	5390	Circulating	Circulating
17-Feb-18	17:15	23:15	6.00	5390	5431	Drilling	Drilling - (WOB:21.00;GPM :420.00;RPM:55)
17-Feb-18	23:15	24:00	0.75	5431	5431	Circulating	Circulating



<b>JOB NO.:</b>	2082018	<b>Report Time:</b>	2400	11 of 11
<b>Company:</b>	Paul Graham drilling	<b>API JOB #</b>	11-075-20032	
<b>LOCATION:</b>	Idaho	<b>WORK ORDER#</b>		
<b>RIG NAME:</b>	PG#7	<b>FIELD:</b>	Fallon	
<b>STATE:</b>	Idaho	<b>Legal Desc.</b>	<b>Township-Section-Range</b>	
<b>COUNTY:</b>	Payette		-	
<b>WELL NAME:</b>	1-10			

**From Sunday, February 18, 2018 at 0000 to Sunday, February 18, 2018 at 2400**

DRILLING SUMMARY				Drilling Parameters							
Start Depth	0.00	Rotary Hours	0.00	WOB	21	Pick UP	93	Slack Off	77	SPM	
End Depth	0.00	Circulating Hours	1.50	RAB	83	SPP	2275	FlowRate	420 - 420	200	
Total Drilled:	0.00	Avg. Total ROP:	NA	<b>Mud Data</b>							
Total Rotary Drilled:	0.00	Avg. Rotary ROP:	NA	Type		PV	0	SOLID	0		
Total Drilled Sliding:	0.00	Avg. Slide ROP:	NA	Weight	.00 PPG	GAS	0	YP	0	BHT°	.0
Slide Hours:	0.00	Percent Rotary:	NA	Viscosity	0	SAND	0	PH	0	Flow T°	.0
Below Rotary Hrs.	6.50	Percent Slide:	NA	Chlorides	0	WL	0			Oil %	0

PERSONNEL			CASING			BHA		
Lead Directional :	Steve Summitt		Size	lbf/Ft	Set Depth	BHA # 1:XR+CPS, 6.5 MOTOR, UBHO, FLEX MONEL, FLEX MONEL, JARS, X-OVER, 4 Hevi, .		
Second Directional :	Jesse Lindsey		508.0	.00	.00			
MWD Operator1								
MWD Operator2								
Directional Company:	John M Phillips							
Geologist:			Signature:					
Company Man:	Dave							
Incl. In:	0	Azm. In:	0	Incl. Out:	0	Azm. Out:	0	

**GENERAL COMMENT**

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
18-Feb-18	00:00	01:30	1.50	5431.0	5431.0	Circulating	Circulating
18-Feb-18	01:30	05:00	3.50	5431	5431	POOH	POOH
18-Feb-18	05:00	06:30	1.50	5431	5431	Other	Lay down BHA

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# Tool Utilization Report







<b>JOB NO.:</b>	2082018
<b>Company:</b>	Paul Graham drilling
<b>LOCATION:</b>	Idaho
<b>RIG NAME:</b>	PG#7
<b>STATE:</b>	Idaho
<b>COUNTY:</b>	USA
<b>WELL NAME:</b>	1-10

<b>FIELD:</b>	Fallon
<b>Legal Desc.</b>	Township-Section-Range
	--

## Tool Utilization Report

### Bits

#### RJ5801 - XR+CPS

BHA #	Rotary Hours	Slide Hours	Total Hours	Circ. Hours	Below Rotary	Amount Drilled
1	86.92	24.58	136.50	136.75	179.00	4,282.00
1	86.92	24.58	136.50	136.75	179.00	4,282.00
1	86.92	24.58	136.50	136.75	179.00	4,282.00

<< Summary for RJ5801

<< Summary for Bits

### Flex Joints

#### JMPFC001 - FLEX MONEL

BHA #	Rotary Hours	Slide Hours	Total Hours	Circ. Hours	Below Rotary	Amount Drilled
1	86.92	24.58	136.50	136.75	179.00	4,282.00
1	86.92	24.58	136.50	136.75	179.00	4,282.00

<< Summary for JMPFC001

#### JMPFC002 - FLEX MONEL

BHA #	Rotary Hours	Slide Hours	Total Hours	Circ. Hours	Below Rotary	Amount Drilled
1	86.92	24.58	136.50	136.75	179.00	4,282.00
1	86.92	24.58	136.50	136.75	179.00	4,282.00
2	173.83	49.17	273.00	273.50	358.00	8,564.00

<< Summary for JMPFC002

<< Summary for Flex Joints

### Jars

#### PGJ001 - JARS

BHA #	Rotary Hours	Slide Hours	Total Hours	Circ. Hours	Below Rotary	Amount Drilled
1	86.92	24.58	136.50	136.75	179.00	4,282.00
1	86.92	24.58	136.50	136.75	179.00	4,282.00
1	86.92	24.58	136.50	136.75	179.00	4,282.00

<< Summary for PGJ001

<< Summary for Jars

### Motors

#### 650-002 - 6.5 MOTOR

BHA #	Rotary Hours	Slide Hours	Total Hours	Circ. Hours	Below Rotary	Amount Drilled
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## Tool Utilization Report

1	86.92	24.58	136.50	136.75	179.00	4,282.00
1	86.92	24.58	136.50	136.75	179.00	4,282.00
1	86.92	24.58	136.50	136.75	179.00	4,282.00

<< Summary for 650-002

<< Summary for Motors

### Muleshoes

#### 650-217 - UBHO

BHA #	Rotary Hours	Slide Hours	Total Hours	Circ. Hours	Below Rotary	Amount Drilled
1	86.92	24.58	136.50	136.75	179.00	4,282.00
1	86.92	24.58	136.50	136.75	179.00	4,282.00
1	86.92	24.58	136.50	136.75	179.00	4,282.00

<< Summary for 650-217

<< Summary for Muleshoes

### X-Overs

#### PGX001 - X-OVER

BHA #	Rotary Hours	Slide Hours	Total Hours	Circ. Hours	Below Rotary	Amount Drilled
1	86.92	24.58	136.50	136.75	179.00	4,282.00
1	86.92	24.58	136.50	136.75	179.00	4,282.00
1	86.92	24.58	136.50	136.75	179.00	4,282.00

<< Summary for PGX001

<< Summary for X-Overs

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All BHA Slide report



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JOB NO.:	2082018	FIELD:	Fallon
Company:	Paul Graham drilling	Legal Desc.:	Township-Section-Range
LOCATION:	Idaho		-
RIG NAME:	PG#7	<b>MOTOR INFORMATION</b>	
STATE:	Idaho	Desc: Motor 650-002 9-10-4stage	
COUNTY:	Payette	Bent Hsg/Sub: 1.50 / 0	Bit to Bend: 4.00
WELL NAME:	1-10	Pad OD: 6.75	NB Stab: .00

**Slide Report for BHA # 1** Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
1	10-Feb	Drilling	22:00	22:15	0.25	1180	1182	2	10	8.0	55	0	420	1400		0.00	0.00	0.00	
1	10-Feb	Sliding	22:15	22:45	0.50	1182	1224	42	12	84.0	0	40	412	1400	200	0.20	229.70	0.00	
1	10-Feb	Drilling	22:45	23:45	1.00	1224	1276	52	10	52.0	55	40	420	1400		0.00	0.00	0.00	
1	10-Feb	Sliding	23:45	24:00	0.25	1276	1297	21	12	84.0	0	40	420	1400		0.00	0.00	0.00	
1	11-Feb	Sliding	00:00	00:30	0.50	1297	1322	25	12	50.0	0	40	412	1400	205	0.00	0.00	0.00	
1	11-Feb	Drilling	00:30	01:30	1.00	1322	1369	47	10	47.0	55	40	420	1400		0.00	0.00	0.00	
1	11-Feb	Sliding	02:00	03:00	1.00	1369	1401	32	12	32.0	0	55	445	1400	10	0.00	0.00	0.00	
1	11-Feb	Sliding	04:30	04:45	0.25	1401	1421	20	18	80.0	0	0	445	1400	15	0.00	0.00	0.00	
1	11-Feb	Drilling	04:45	05:45	1.00	1421	1463	42	10	42.0	55	0	420	1400		0.00	0.00	0.00	
1	11-Feb	Sliding	05:45	06:15	0.50	1463	1514	51	20	102.0	0	80	445	1400		0.00	0.00	0.00	
1	11-Feb	Drilling	06:15	07:00	0.75	1514	1556	42	10	56.0	55	80	420	1400		0.00	0.00	0.00	
1	11-Feb	Sliding	07:00	08:00	1.00	1556	1597	41	20	41.0	55	80	445	1400		0.00	0.00	0.00	
1	11-Feb	Drilling	08:00	08:30	0.50	1597	1619	22	10	44.0	55	80	420	1400		0.00	0.00	0.00	
1	11-Feb	Drilling	10:00	10:45	0.75	1619	1650	31	10	41.3	55	80	420	1400		0.00	0.00	0.00	
1	11-Feb	Sliding	10:45	11:45	1.00	1650	1700	50	20	50.0	0	80	445	1400		0.00	0.00	0.00	
1	11-Feb	Drilling	11:45	13:00	1.25	1700	1743	43	10	34.4	55	80	420	1400		0.00	0.00	0.00	
1	11-Feb	Drilling	13:00	15:00	2.00	1743	1837	94	10	47.0	55	80	420	1400		0.00	0.00	0.00	
1	11-Feb	Sliding	16:30	17:45	1.25	1837	1889	52	20	41.6	0	80	445	1400	5	0.00	0.00	0.00	
1	11-Feb	Drilling	17:45	18:30	0.75	1889	1931	42	12	56.0	55	80	420	1400		0.00	0.00	0.00	
1	11-Feb	Sliding	18:30	19:30	1.00	1931	1985	54	20	54.0	0	90	445	1650	347	0.00	0.00	0.00	
1	11-Feb	Drilling	19:30	20:45	1.25	1985	2026	41	12	32.8	55	90	420	1650		0.00	0.00	0.00	
1	11-Feb	Sliding	20:45	21:15	0.50	2026	2073	47	22	94.0	0	90	445	1650	352	0.00	0.00	0.00	
1	11-Feb	Drilling	21:15	21:30	0.25	2073	2089	16	12	64.0	55	90	420	1650		0.00	0.00	0.00	
1	11-Feb	Drilling	23:00	23:45	0.75	2089	2120	31	12	41.3	55	90	420	1650		0.00	0.00	0.00	
1	11-Feb	Sliding	23:45	24:00	0.25	2120	2151	31	22	124.0	0	110	445	1650		0.00	0.00	0.00	
1	12-Feb	Sliding	00:00	00:15	0.25	2151	2171	20	22	80.0	0	110	445	1650		0.00	0.00	0.00	

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**Slide Report for BHA # 1**

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
1	12-Feb	Drilling	00:15	01:15	1.00	2171	2213	42	12	42.0	55	110	420	1650		0.00	0.00	0.00	
1	12-Feb	Sliding	01:15	02:00	0.75	2213	2264	51	22	68.0	55	110	445	1650		0.00	0.00	0.00	
1	12-Feb	Drilling	02:00	03:00	1.00	2264	2307	43	12	43.0	55	110	420	1650		0.00	0.00	0.00	
1	12-Feb	Sliding	03:00	03:45	0.75	2307	2348	41	22	54.7	55	110	445	1900		0.00	0.00	0.00	
1	12-Feb	Drilling	03:45	04:00	0.25	2348	2370	22	12	88.0	55	110	420	1900		0.00	0.00	0.00	
1	12-Feb	Drilling	05:30	06:00	0.50	2370	2402	32	12	64.0	55	110	420	1900		0.00	0.00	0.00	
1	12-Feb	Drilling	06:15	10:15	4.00	2402	2620	218	12	54.5	55	110	420	1900		0.00	0.00	0.00	
1	12-Feb	Drilling	13:00	16:00	3.00	2620	2766	146	12	48.7	55	110	420	1900		0.00	0.00	0.00	
1	12-Feb	Sliding	16:00	16:30	0.50	2766	2776	10	14	20.0	0	110	445	1900	90	0.00	0.00	0.00	
1	12-Feb	Drilling	16:30	17:30	1.00	2776	2839	63	12	63.0	55	110	420	1900		0.00	0.00	0.00	
1	12-Feb	Drilling	18:45	19:30	0.75	2839	2871	32	12	42.7	55	110	420	1900		0.00	0.00	0.00	
1	12-Feb	Drilling	19:45	20:15	0.50	2871	2901	30	12	60.0	55	110	420	1900		0.00	0.00	0.00	
1	12-Feb	Drilling	21:00	21:45	0.75	2901	2965	64	12	85.3	55	110	420	1900		0.00	0.00	0.00	
1	12-Feb	Drilling	22:00	22:45	0.75	2965	3027	62	12	82.7	55	110	420	1900		0.00	0.00	0.00	
1	13-Feb	Drilling	01:15	01:45	0.50	3027	3058	31	12	62.0	55	110	420	2100		0.00	0.00	0.00	
1	13-Feb	Sliding	01:45	02:00	0.25	3058	3071	13	14	52.0	55	110	445	2100	90	0.00	0.00	0.00	
1	13-Feb	Drilling	02:00	03:15	1.25	3071	3152	81	12	64.8	55	110	420	2100		0.00	0.00	0.00	
1	13-Feb	Drilling	03:30	04:00	0.50	3152	3184	32	12	64.0	55	110	420	2100		0.00	0.00	0.00	
1	13-Feb	Drilling	10:45	11:30	0.75	3184	3246	62	12	82.7	55	110	420	2100		0.00	0.00	0.00	
1	13-Feb	Drilling	11:30	13:45	2.25	3246	3340	94	12	41.8	55	110	420	2165		0.00	0.00	0.00	
1	13-Feb	Drilling	13:45	14:15	0.50	3340	3371	31	12	62.0	55	110	420	2165		0.00	0.00	0.00	
1	13-Feb	Drilling	15:30	16:45	1.25	3371	3433	62	12	49.6	55	110	420	2165		0.00	0.00	0.00	
1	13-Feb	Drilling	17:00	18:30	1.50	3433	3527	94	12	62.7	55	110	420	2165		0.00	0.00	0.00	
1	13-Feb	Drilling	18:45	19:30	0.75	3527	3589	62	12	82.7	55	110	420	2165		0.00	0.00	0.00	
1	13-Feb	Drilling	21:30	22:30	1.00	3589	3621	32	12	32.0	55	110	420	2165		0.00	0.00	0.00	
1	13-Feb	Sliding	22:30	23:00	0.50	3621	3641	20	18	40.0	0	150	445	2165	255	0.00	0.00	0.00	
1	13-Feb	Drilling	23:00	24:00	1.00	3641	3683	42	12	42.0	55	150	420	2165		0.00	0.00	0.00	
1	14-Feb	Drilling	00:00	01:30	1.50	3683	3715	32	12	21.3	55	150	420	2165		0.00	0.00	0.00	
1	14-Feb	Drilling	03:45	06:30	2.75	3715	3809	94	12	34.2	55	150	420	2165		0.00	0.00	0.00	
1	14-Feb	Drilling	06:45	07:30	0.75	3809	3840	31	12	41.3	55	150	420	2165		0.00	0.00	0.00	
1	14-Feb	Drilling	11:30	17:15	5.75	3840	3965	125	12	21.7	55	150	420	2165		0.00	0.00	0.00	
1	14-Feb	Drilling	18:00	19:30	1.50	3965	3968	3	12	2.0	55	150	420	2165		0.00	0.00	0.00	
1	15-Feb	Drilling	03:30	04:15	0.75	3968	3996	28	12	37.3	55	150	420	2165		0.00	0.00	0.00	
1	15-Feb	Drilling	04:30	06:00	1.50	3996	4058	62	12	41.3	55	150	420	2165		0.00	0.00	0.00	
1	15-Feb	Sliding	06:00	07:00	1.00	4058	4089	31	18	31.0	0	150	445	2165	180	0.00	0.00	0.00	

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**Slide Report for BHA # 1**

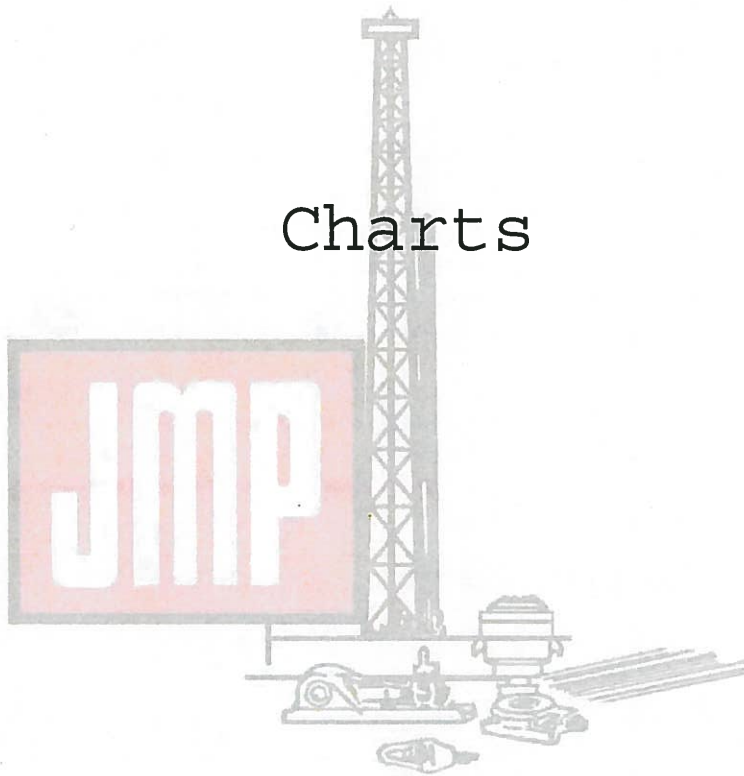
Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
1	15-Feb	Drilling	07:00	09:00	2.00	4089	4152	63	20	31.5	55	150	420	2165		0.00	0.00	0.00	
1	15-Feb	Sliding	10:15	11:25	1.17	4152	4183	31	21	26.6	0	150	445	2165	180	0.00	0.00	0.00	
1	15-Feb	Drilling	11:25	15:30	4.08	4183	4340	157	20	38.4	55	150	420	2165		0.00	0.00	0.00	
1	15-Feb	Sliding	15:30	16:00	0.50	4309	4340	31	21	62.0	0	150	445	2165	180	0.00	0.00	0.00	
1	15-Feb	Drilling	18:00	19:15	1.25	4340	4432	92	20	73.6	55	150	420	2165		0.00	0.00	0.00	
1	15-Feb	Sliding	19:15	20:00	0.75	4432	4476	44	21	58.7	55	150	445	2165	180	0.00	0.00	0.00	
1	15-Feb	Drilling	20:00	21:15	1.25	4476	4528	52	20	41.6	55	150	420	2165		0.00	0.00	0.00	
1	15-Feb	Sliding	21:15	22:00	0.75	4528	4559	31	21	41.3	0	220	445	2275	195	0.00	0.00	0.00	
1	16-Feb	Drilling	00:00	01:45	1.75	4559	4622	63	20	36.0	55	220	420	2275		0.00	0.00	0.00	
1	16-Feb	Sliding	01:45	03:30	1.75	4622	4668	46	21	26.3	55	220	445	2275	195	0.00	0.00	0.00	
1	16-Feb	Drilling	03:30	04:45	1.25	4668	4715	47	20	37.6	55	220	420	2275		0.00	0.00	0.00	
1	16-Feb	Sliding	06:45	08:40	1.92	4715	4766	51	21	26.6	0	220	445	2275	190	0.00	0.00	0.00	
1	16-Feb	Drilling	08:40	09:45	1.08	4766	4809	43	20	39.7	55	220	420	2275		0.00	0.00	0.00	
1	16-Feb	Sliding	09:45	11:10	1.42	4809	4872	63	21	44.5	55	220	445	2275		0.00	0.00	0.00	
1	16-Feb	Sliding	14:10	15:45	1.58	4872	4902	30	21	18.9	0	220	445	2275	180	0.00	0.00	0.00	
1	16-Feb	Drilling	15:45	18:00	2.25	4902	4996	94	20	41.8	55	220	420	2275		0.00	0.00	0.00	
1	16-Feb	Sliding	18:00	19:15	1.25	4996	5027	31	21	24.8	55	220	445	2275	180	0.00	0.00	0.00	
1	16-Feb	Drilling	20:15	22:30	2.25	5027	5089	62	20	27.6	55	220	420	2275		0.00	0.00	0.00	
1	16-Feb	Sliding	22:30	24:00	1.50	5089	5135	46	21	30.7	55	220	445	2275	180	0.00	0.00	0.00	
1	17-Feb	Drilling	00:00	01:45	1.75	5135	5183	48	20	27.4	55	220	420	2275		0.00	0.00	0.00	
1	17-Feb	Drilling	03:45	06:00	2.25	5183	5276	93	20	41.3	55	220	420	2275		0.00	0.00	0.00	
1	17-Feb	Drilling	06:00	06:45	0.75	5276	5290	14	30	18.7	0	220	420	2275	185	0.00	0.00	0.00	
1	17-Feb	Drilling	06:45	09:45	3.00	5290	5350	60	21	20.0	55	220	420	2275		0.00	0.00	0.00	
1	17-Feb	Drilling	11:30	16:45	5.25	5350	5390	40	21	7.6	55	220	420	2275		0.00	0.00	0.00	
1	17-Feb	Drilling	17:15	23:15	6.00	5390	5431	41	21	6.8	55	220	420	2275		0.00	0.00	0.00	

<b>Total Drilled:</b>	4282 Ft	<b>Avg. Total ROP:</b>	38.40	<b>DEPTH% - TIME %</b>
<b>Total Rotary Drilled:</b>	3226 Ft	<b>Avg. Rotary ROP:</b>	37.12	<b>Percent Rotary:</b> 75.34 - 77.95
<b>Total Drilled Sliding:</b>	1056 Ft	<b>Avg. Slide ROP:</b>	42.96	<b>Percent Slide:</b> 24.66 - 22.05

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# Charts

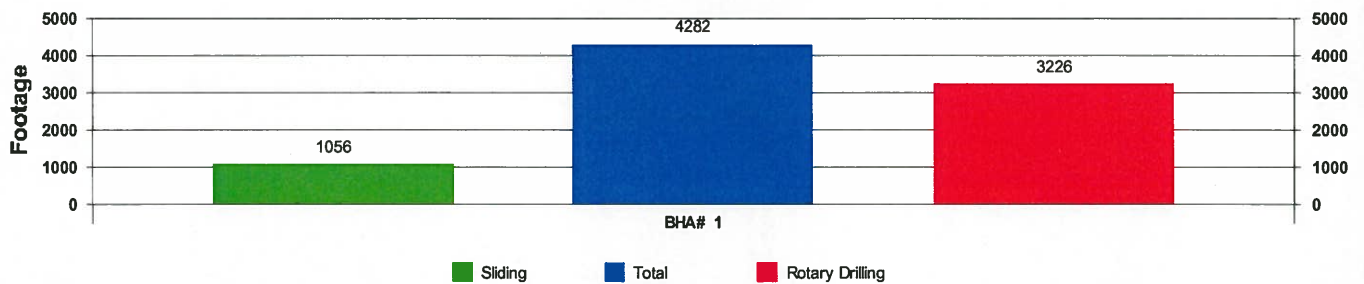


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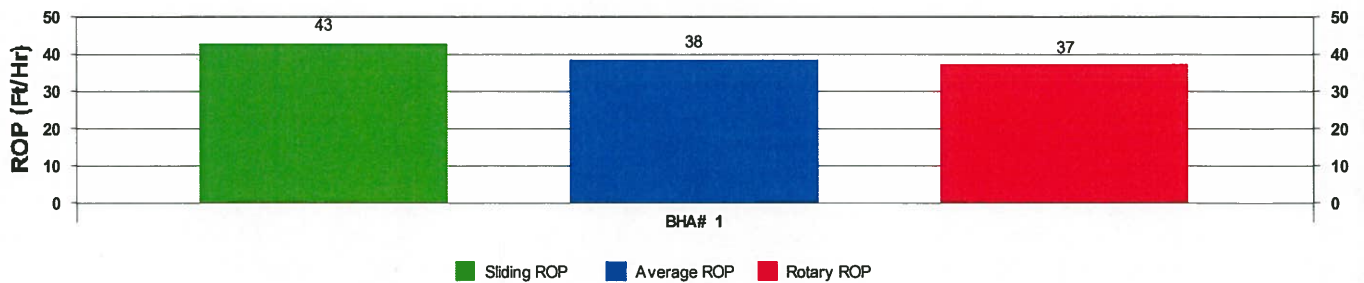


JOB NO.:	2082018	FIELD:	Fallon
Company:	Paul Graham drilling	Legal Desc.:	Township-Section-Range
LOCATION:	Idaho		-
RIG NAME:	PG#7	COMMENT	
STATE:	Idaho		
COUNTY:	Payette		
WELL NAME:	1-10		

Footage Drilled with BHA



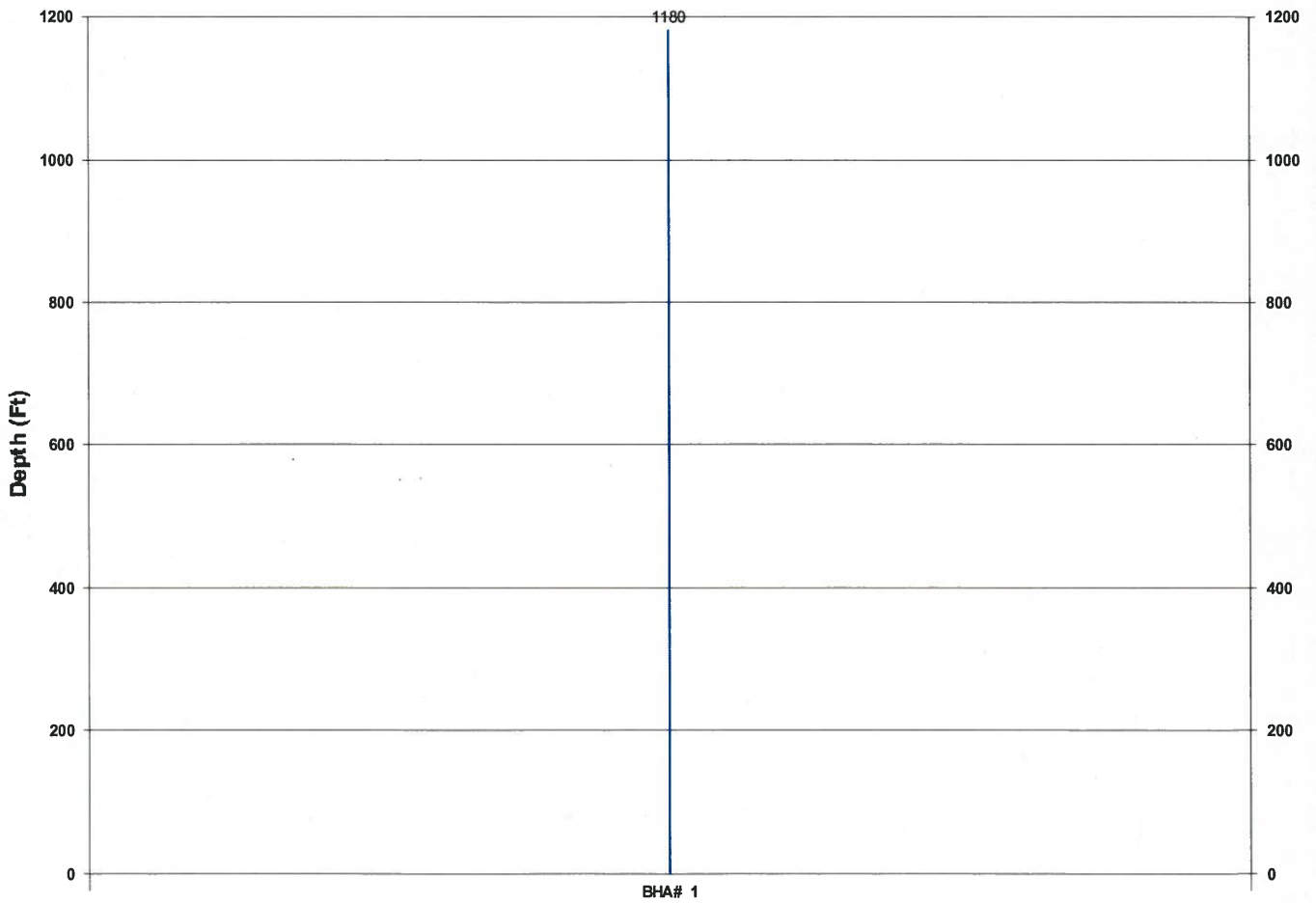
ROP vs BHA



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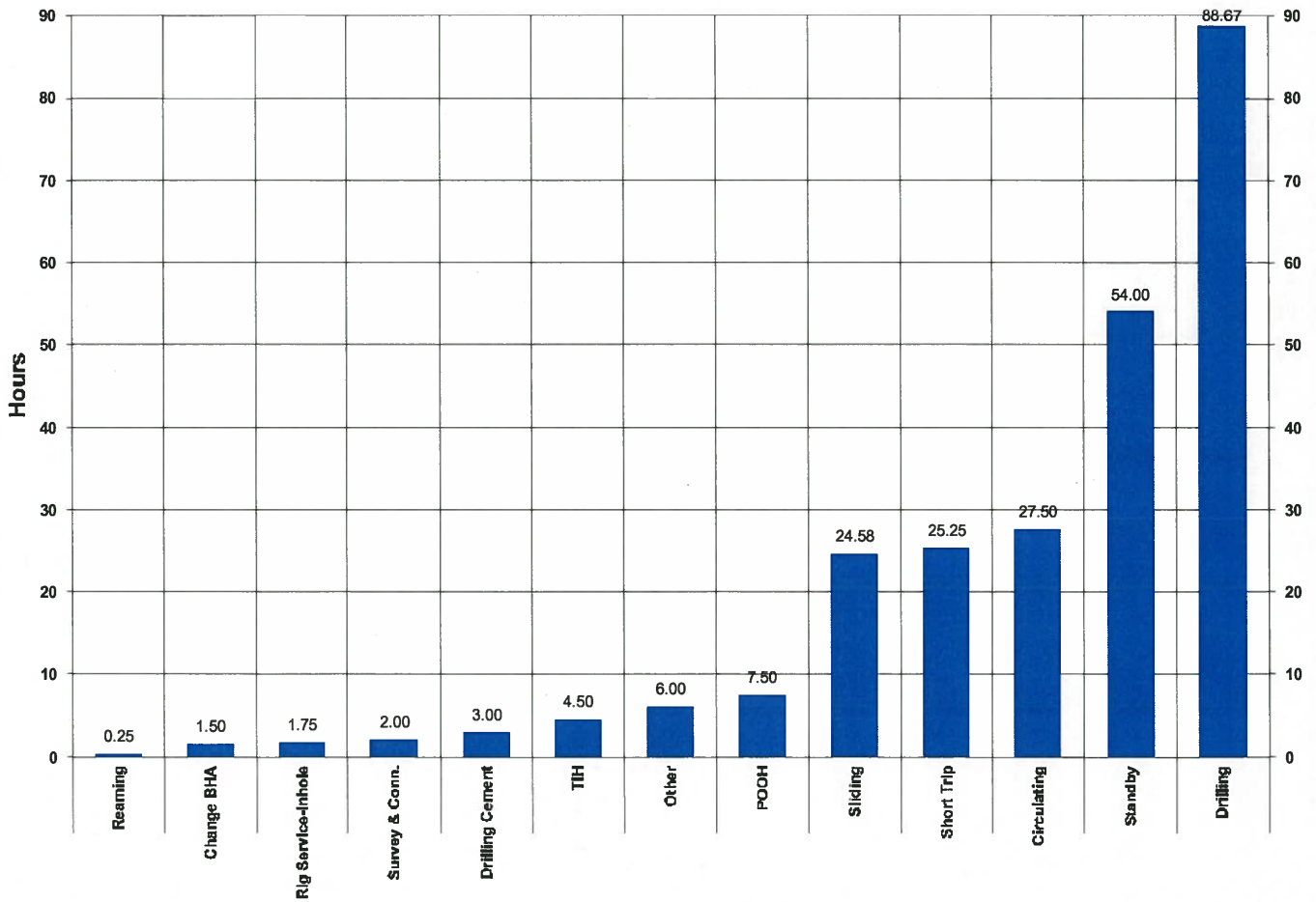


Depth vs BHA



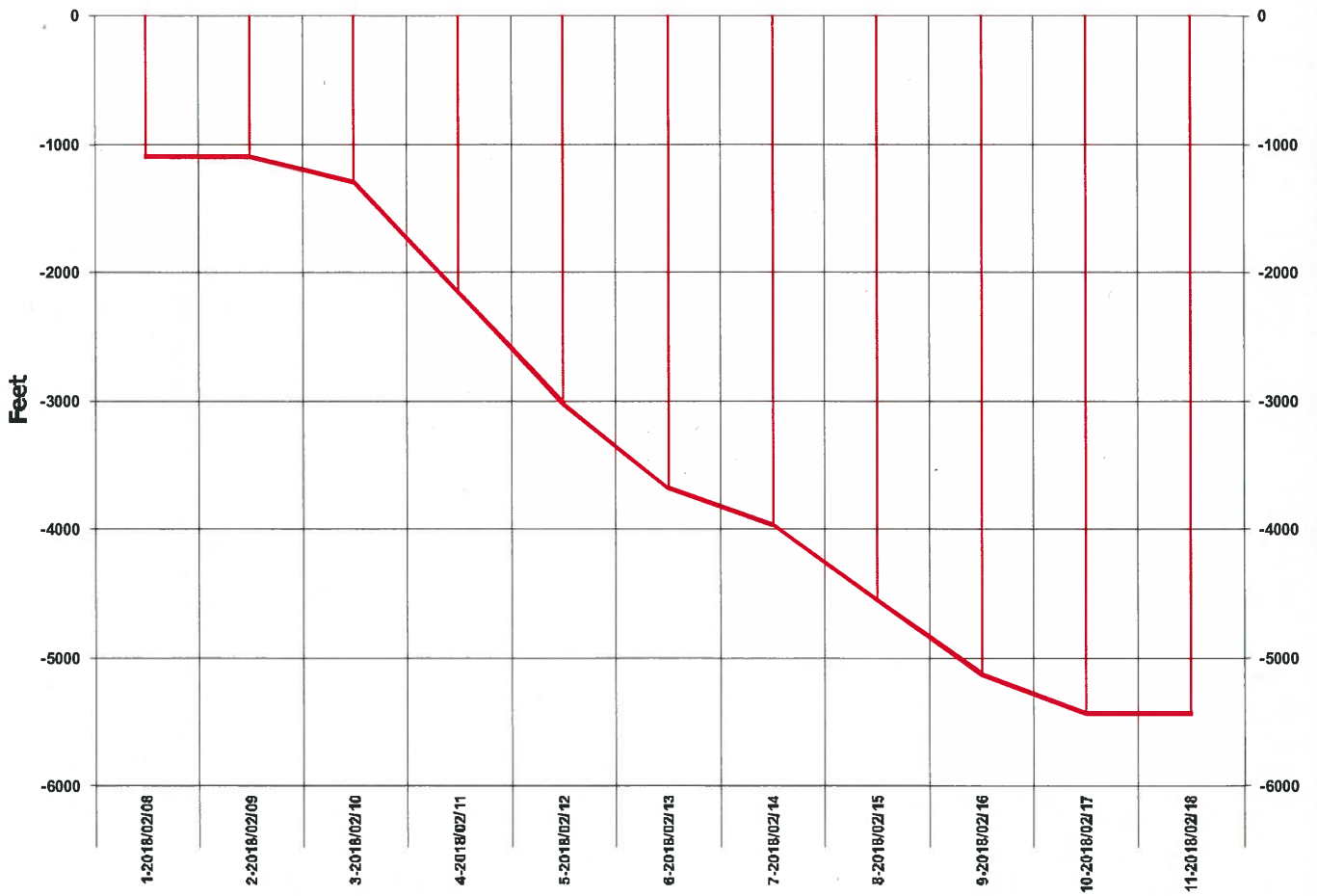
**CONFIDENTIAL**

### Activity Histogram



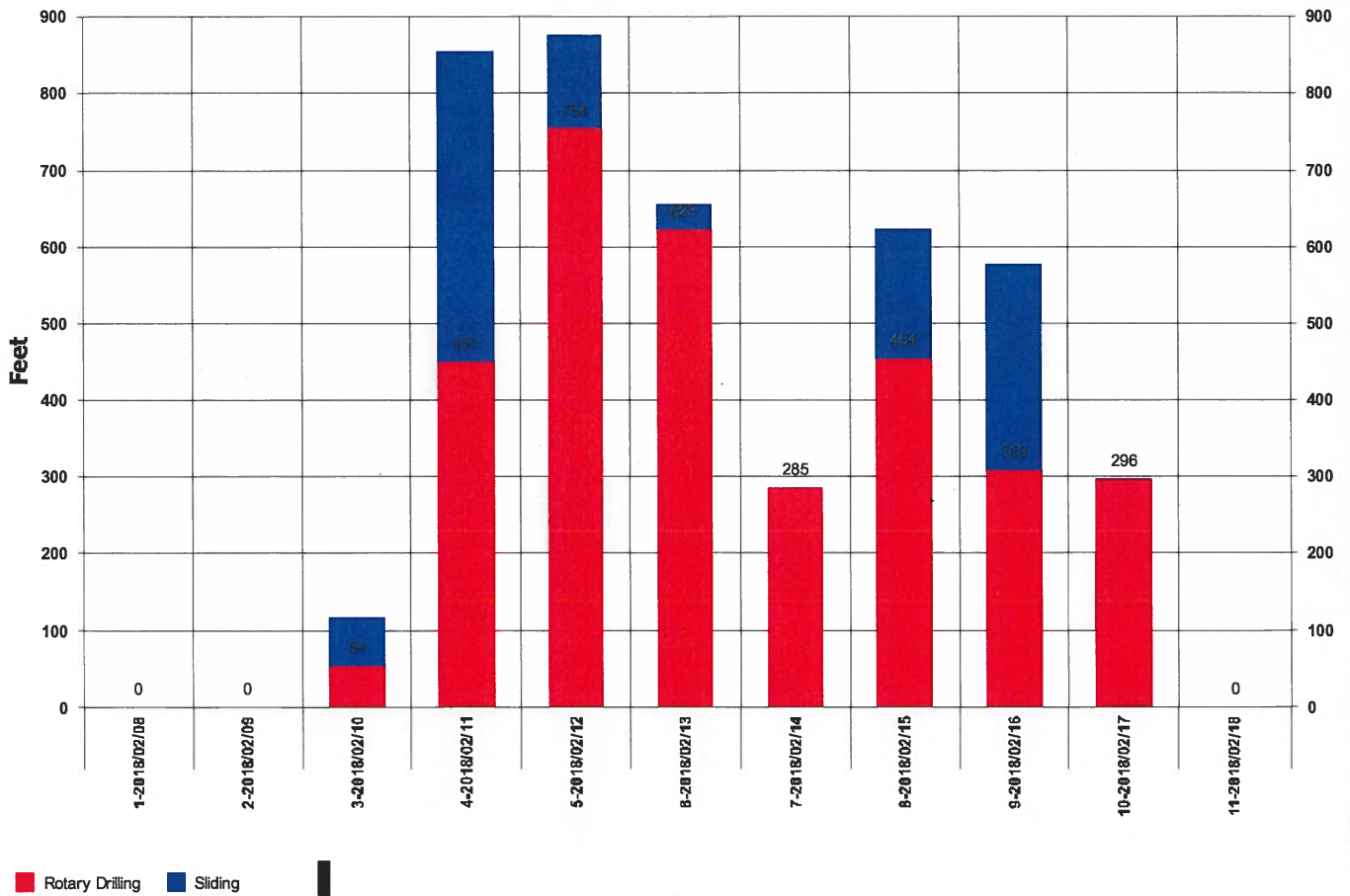
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Measured Depth vs Days



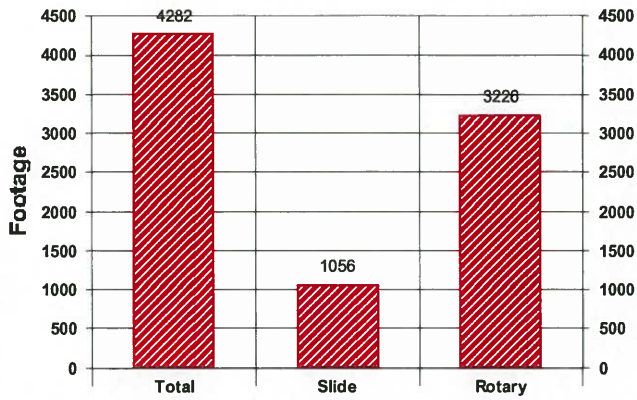
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### Daily Footage

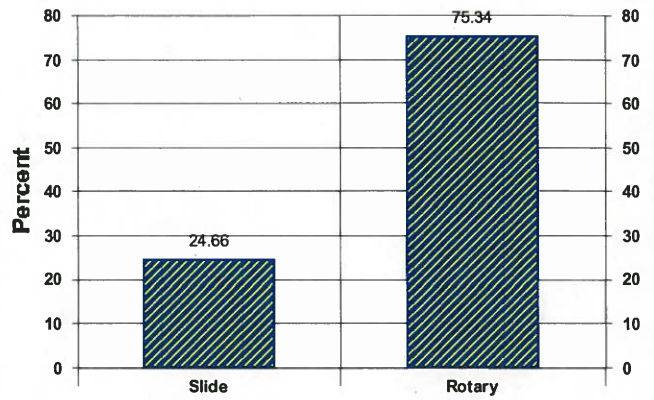


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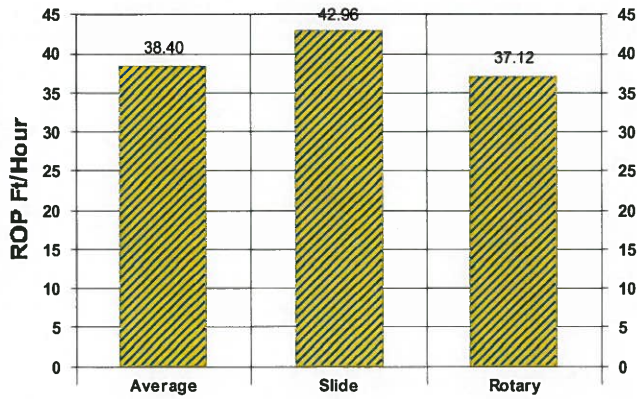
Footage Drilled Totals



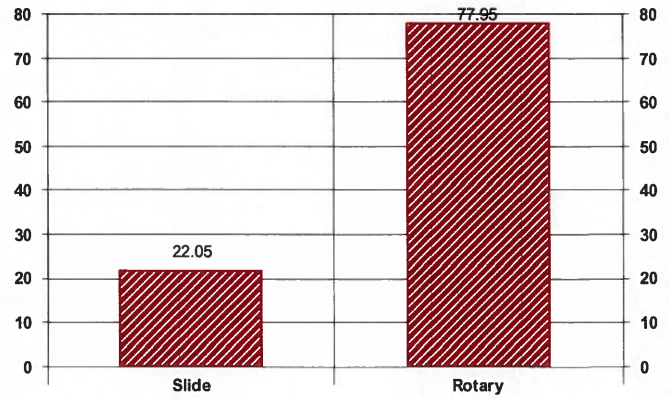
Footage Percent



Rate of Penetration Totals

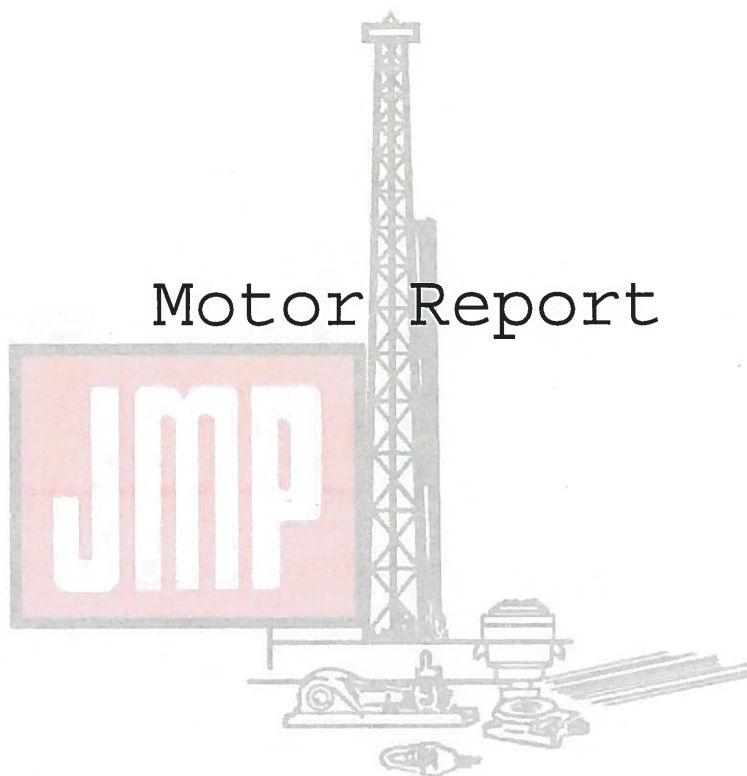


Time Percent



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# Motor Report



**CONFIDENTIAL**

**BHA # 1**

# Mud Motor Report



JOB NO.:	2082018	FIELD:	Fallon
Company:	Paul Graham drilling	Legal Desc.	Township-Section-Range
LOCATION:	Idaho		--
RIG NAME:	PG#7	Lead DD:	Steve Summitt
STATE:	Idaho	Co. Man:	Dave
COUNTY:	Payette	Motor Failed?	NO
WELL NAME:	1-10		

Time and Depths (This BHA)		MOTOR DATA		Drilling Parameters	
Date In:	10-Feb-18 @ 19:30	Desc:	Motor 650-002 9-10-4stage	SO/PU:	38 - 77 / 40-93
Date Out:	18-Feb-18 @ 06:30	MFG.:	JMP	Rot Wt:	38-83
Hrs In Hole:	179.00	BHA Circ/ All BHA:	136.75 / 136.75	WOB:	10 - 30
Start Depth:	1180.00	Motor SN:	650-002	TORQ:	0 - 220
End Depth:	5431.00	Pad OD:	6.75	SPP:	1400 - 2275
Total Drilled:	4282.00	NB Stab:	0.00	Motor RPM:	189.5 - 204.7
Avg. Total ROP:	38.40	Bit to Bend:	4.00	Rotary RPM:	0 - 55
Circ Hrs:Tot/Only	136.75 / 25.25	Bent Hsg / Sub:	1.5 /	Flow Rate:	412 - 445
Percent Slide:	24.66	Lobe/Stage:	9-10 / 4	Avg Diff:	700
Percent Hrs:	22.05	Revs/Gal:	0.46	Stall Pres.:	0
Slide Hours:	24.58	Rotor Jet:	0.0	Off Bot Pres.:	0
Total Sliding:	1056.00	Prop BUR:		<b>Bit Record</b>	
Avg. Slide ROP:	42.96	Act BUR:		/ XR+CPS	
Percent Rotary:	75.34	Stator Clearance:		Run #:	
Percent Hrs:	77.95	Lower Stab OD:	0.00	Type Bit:	ROCK
Rot / Total Hrs:	86.92 / 111.50	Upper Stab OD:	0	IADC#:	TFA: .59 in <sup>2</sup>
Rotary Drilled:	3226.00	Extended Motor?	NO	JETS:	3-16
Avg. Rotary ROP:	37.12	Number of Stalls:		P Drop:	0PSI @ 445 GPM
Reason POOH:		Stall Duration:		Cond.:	

**Mud Data**

Type		WT:	0.0PPG	Vis:	0	WL:	0	PV:	0	Flow T %	0.0
SAND:	0	Chlor:	0	GAS:	0	SOL:	0	Oil %:	0	YP:	0
PH:	0	Bottom Hole T %	0.0	Formation:							

**EXPANDED REASON PULLED:****BHA PERFORMANCE:****ADDITIONAL COMMENTS:** (Expands to next page if necessary)
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