

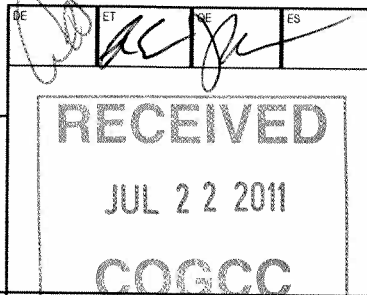


02305076

State of Colorado

Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303)894-2100 Fax: (303)894-2109



SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b.)

Complete the Attachment Checklist

OP OGCC

1. OGCC Operator Number: 95960	4. Contact Name: Tammy Fredrickson
2. Name of Operator: Wexpro Company	Phone: 307.352.7514
3. Address: P.O. Box 458	Fax: 307.352.7575
City: Rock Springs State: WY Zip 82902	
5. API Number 05- 081-07635-00	OGCC Facility ID Number 69800
6. Well/Facility Name: Jacks Draw Unit	7. Well/Facility Number 18
8. Location (QtrQtr, Sec, Twp, Rng, Meridian): NENW 28-12N-97W 69M	
9. County: Moffat	10. Field Name: Powder Wash
11. Federal, Indian or State Lease Number: COD040867B	

Survey Plat		
Directional Survey	X	X
Surface Eqpm Diagram		
Technical Info Page	X	X
Other	X	X

General Notice

PA Coq/671A

☐ CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)

Change of Surface Footage from Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change of Surface Footage to Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change of Bottomhole Footage to Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Bottomhole location Qtr/Qtr, Sec, Twp, Rng, Mer _____

Latitude _____ Distance to nearest property line _____ Distance to nearest bldg, public rd, utility or RR _____

Longitude _____ Distance to nearest lease line _____ Is location in a High Density Area (rule 603b)? Yes/No ☐

Ground Elevation _____ Distance to nearest well same formation _____ Surface owner consultation date: _____

attach directional survey

GPS DATA:

Date of Measurement _____ PDOP Reading _____ Instrument Operator's Name _____

<input type="checkbox"/> CHANGE SPACING UNIT	<input type="checkbox"/> Remove from surface bond
Formation _____ Formation Code _____ Spacing order number _____ Unit Acreage _____ Unit configuration _____	Signed surface use agreement attached

<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling): Effective Date: _____ Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	<input type="checkbox"/> CHANGE WELL NAME From: _____ To: _____ Effective Date: _____ NUMBER _____
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<input type="checkbox"/> ABANDONED LOCATION: Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No Is site ready for Inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No Date Ready for Inspection: _____	<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS Date well shut in or temporarily abandoned: _____ Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No MIT required if shut in longer than two years. Date of last MIT _____
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<input type="checkbox"/> SPUD DATE: _____	<input type="checkbox"/> REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)
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<input type="checkbox"/> SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK	*submit cbl and cement job summaries
Method used _____ Cementing tool setting/perf depth _____ Cement volume _____ Cement top _____ Cement bottom _____ Date _____	

☐ RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004.

Final reclamation will commence on approximately _____ ☐ Final reclamation is completed and site is ready for inspection.

Technical Engineering/Environmental Notice

<input checked="" type="checkbox"/> Notice of Intent Approximate Start Date: August 1, 2011	<input type="checkbox"/> Report of Work Done Date Work Completed: _____
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Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)

<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare	<input type="checkbox"/> E&P Waste Disposal
<input checked="" type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well	<input type="checkbox"/> Beneficial Reuse of E&P Waste
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested	<input type="checkbox"/> Status Update/Change of Remediation Plans
<input type="checkbox"/> Casing/Cementing Program Change	<input type="checkbox"/> Other: _____	for Spills and Releases

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: W.T. Davey Date: 7-15-11 Email: Tammy.Fredrickson@Questar.com
Print Name: W.T. Davey, JR Title: Drilling Manager

COGCC Approved: [Signature] Title NWA Engineer Date: 10/5/11
CONDITIONS OF APPROVAL, IF ANY:

**DRILLING PLAN
WEXPRO COMPANY
JACKS DRAW UNIT NO. 18
Revised July 7, 2011
MOFFAT COUNTY, COLORADO**

1. SURFACE FORMATION, ESTIMATED TOPS AND WATER, OIL, GAS OR MINERAL BEARING FORMATIONS:

	MD	TVD
Wasatch	Surface	Surface
A-4-G SD	4,431'	4,366', gas - Secondary Objective
A-4-H SD	5,018'	4,939', gas - Secondary Objective
Fort Union	5,219'	5,137'
Allen 8 - A	6,070'	5,983'
Allen 8 - B	6,112'	6,025', gas, - Major Objective
Allen 8 - E	6,250'	6,163'
Allen 8 - F	6,381'	6,294', gas, - Major Objective
Allen 8 - G	6,425'	6,338'
Allen 8 - H	6,469'	6,382'
Allen 9 - A	6,637'	6,549', gas, - Secondary Objective
Allen 9 - B	6,674'	6,586', gas, - Secondary Objective
Allen 9 - C	6,774'	6,686'
Allen 11	6,899'	6,811'
L. F. U. 4600	7,582'	7,494'
Allen 10 - B	7,897'	7,861'
Allen 10 - C	7,949'	7,861'
Allen 6 - A	8,080'	7,992'
Allen 6 - G	8,552'	8,464', gas, - Major Objective
Allen 6 - H	8,634'	8,546', gas, - Major Objective
Allen 6 - K	8,779'	8,691', gas, - Major Objective
Lance	9,063'	8,975', gas, - Major Objective
Total Depth	9,413'	9,325'

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and adequately protected.

2. PRESSURE CONTROL EQUIPMENT: (see attached diagram) Operator's minimum specifications for pressure control equipment require an 11-inch 3000 psi double gate hydraulically operated blowout preventer and an 11-inch 3000 psi annular preventer. BOP equipment will be tested to its rated working pressure or 70-percent of the internal yield of the surface casing. The annular preventer will be tested at 50-percent of its rated

working pressure. NOTE: The surface casing will be pressure tested to a minimum of 1500 psi. BOP's will be checked daily as to mechanical operating condition and will be tested by rig equipment after each string of casing is run. All ram type preventers will have hand wheels which will be operative and accessible at the time the preventers are installed. Accumulator will include both electric and air power source (see attached diagram).

At this time Wexpro Company requests approval, if needed, to use "Flex Hose" between the BOP and Choke Manifold. The Flex Hose will have a minimum rating of 5,000 psi. Please see the attached specifications sheet for more details.

AUXILIARY EQUIPMENT:

- a) Manually operated kelly cock
- b) No floats at bit
- c) Monitoring of mud system will be visual
- d) Full opening floor valves in the full open position, capable of fitting all drill stem connections manually operated

3. CASING PROGRAM:

Size		Top Bottom		Weight	Grade	Thread	Condition
Hole	Casing						
26"	20"	sfc	80'	Steel Pipe Conductor			New
12-1/4"	9-5/8"	sfc	1500'	36#	J55	LT&C	New
7-7/8"	4-1/2"	sfc	9,413' MD 9,325' TVD	13.5#	P-110	LT&C	New

Casing Strengths:				Collapse	Burst	Tensile (minimum)
9-5/8'	36 lb.	J55	LTC	2,020 psi	3,520 psi	453,000 lb.
4-1/2"	13.5 lb.	P110	LTC	10,670 psi	12,410 psi	338,000 lb.

Area Fracture Gradient: 0.750 psi/foot

CEMENTING PROGRAMS: (See Attached Details)

- 9-5/8" Surface Casing: 979.8 cubic feet Class "G" with 2% CaCl₂ and 1/4 % cello flake (only if lost circulation is encountered).
- 4-1/2" Production Casing: Lead Slurry: 1422 cubic feet Light 50/50 Poz-G with retarder, reducer and fluid loss additive. Volume to be calculated from caliper logs to bring lead cement from 4,800' to surface, with 15% excess.
- Tail Slurry: 1212 cubic feet 35/65 Poz-G with retarder, reducer and fluid loss additive. Volume to be calculated from caliper logs to bring tail cement from TD to 4,800', with 15% excess.

4. MUD PROGRAM:

Surface to 1500 feet

Surface hole mud drilled and cased with the Drilling rig.

Example Properties:

Mud Weight	9.0 ppg
Viscosity	35 – 38
Water Loss	10 – 14
LCM	10% Fine Mica if needed
Filter Cake	1/32
PH	> 10
PV / YP	1/10 minimum
Asphalt	6 lb/bbl

1500 to Total Depth

Drill out surface casing 10' and test formation 10.5 ppg mud equivalent.

Mud properties below will be maintained from Surface Casing to TD

Drill from 1,500' to TD with 350 or less gpm

Mud weight of 9.5 - 10.0 ppg should be accomplished by 1,500 feet to total depth.

Mud weight	9.0 - 10.0 ppg
Viscosity	35 - 45
Water Loss	10 - 14
LCM	10% Fine Mica if needed
Filter Cake	1/32
PH	>10
PV/YP	18/10 Minimum
Asphalt	6 lb/bbl

Sufficient mud materials to maintain mud properties, control lost circulation and to contain blowout will be available at the wellsite.

No chrome constituent additives will be used in the mud system on Federal, State and Indian lands without prior BLM/State approval to ensure adequate protection of fresh water aquifers.

5. LOGGING:
DIL-SFL-GR: Total depth to surface casing.
BHC-Sonic-GR: Total depth to surface casing.
FDC-CNL-GR-PE-Cal: Total depth to surface casing.
Cement/Bore Hole Profile Log

TESTING: None.

CORING: None.
6. ABNORMAL PRESSURE AND TEMPERATURE: A BHT of 190° F and a BHP of 3500 psi are possible.
7. ANTICIPATED STARTING DATE: August 1, 2011

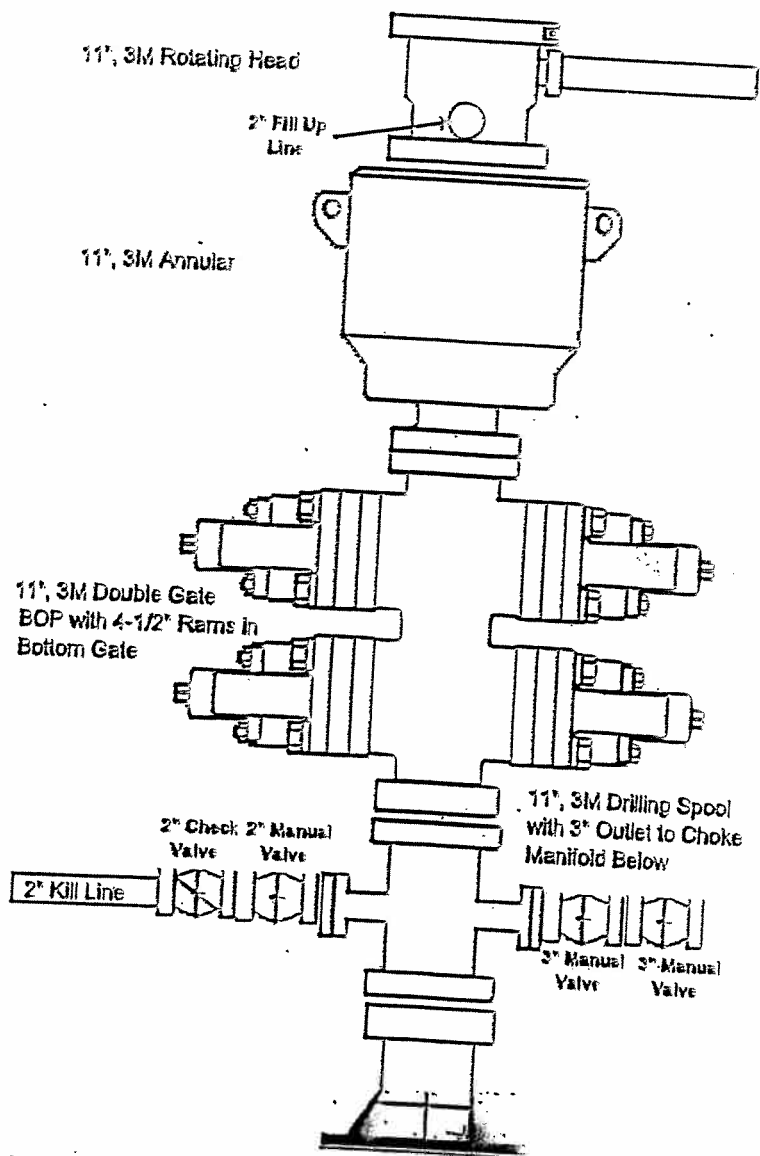
DURATION OF OPERATION: 25 days
-

JACKS DRAW NO 18 : CEMENT CALCULATIONS

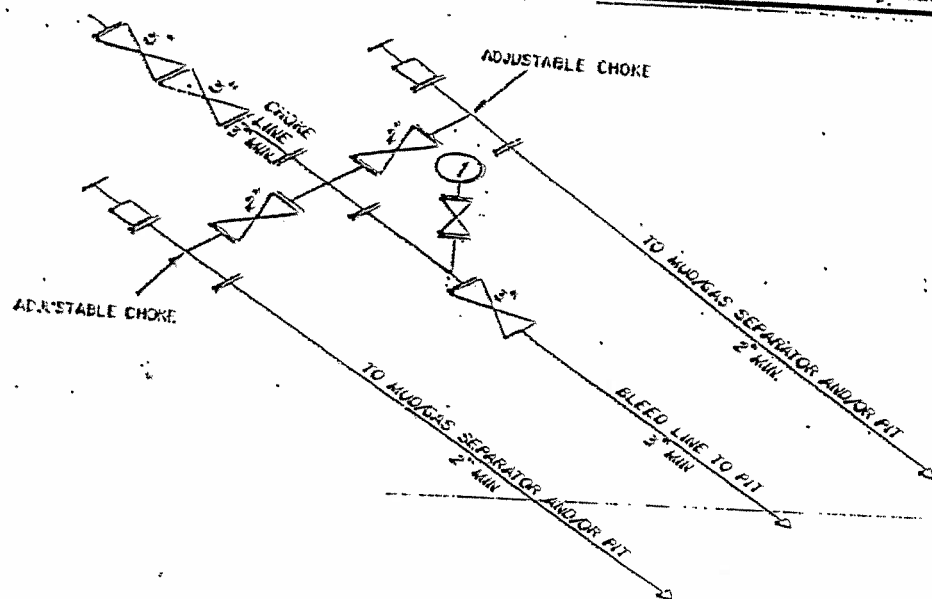
SURFACE CASING:									
CASING:	9.625 "	36#	J-55	0.4340	cu.ft./lin.ft	ID= 8.921			
ANNULUS:	12.250 "	x	9.625" Gauge Hole	0.3131	cu.ft./lin.ft				
CONDUCTOR	16.000 "	STEEL PIPE			0.8908				
EXCESS:				100%					
CEMENT YIELD:	LEAD			2.99	cu.ft./sack	11.4	PPG		
	TAIL			1.15	cu.ft./sack	15.8	PPG		
CONDUCTOR DEPTH				80					
TOTAL DEPTH				1,500	Feet				
TOP OF TAIL				900	Feet				
TOP OF LEAD				0	Feet	(Surface)			
LEAD SLURRY					CU.FT				
COND/CSG ANN	80	TO	0	0.8908	71.27				
ANN (OH)	900	TO	80	0.3131	256.77				
ANN EXCESS				100%	256.77				
					584.80	196 SACKS	584.8	CU.FT.	
TAIL SLURRY					CU.FT				
CSG SHOE (45')	1,500	TO	1,455	0.4340	19.53				
COND/CSG ANN	-	TO	-	0.8908	0.00				
ANN (OH)	1,500	TO	900	0.3131	187.88				
ANN EXCESS				100%	187.88				
					395.28	344 SACKS	395	CU.FT.	
					DISPLACEMENT	112.5	BBLs		

PRODUCTION CASING:									
CASING:	4.500 ", 13.5#, P-110				0.0838 cu.ft./lin.ft		ID= 3.92		
ANNULUS:	7.875 "(For Gauge Hole)				0.2278 cu.ft./lin.ft				
	8.921 " ID x 4-1/2" CASING ANNULUS				0.3236 cu.ft./lin.ft				
EXCESS:					15%				
CEMENT YIELD:	LEAD				2.63 cu.ft./sack		11.5 PPG		
	TAIL				1.49 cu.ft./sack		14.2 PPG		
TOTAL DEPTH					9,413 Feet				
TOP OF TAIL					4,800 Feet				
TOP OF LEAD	OPEN HOLE TOP				1,500 Feet				
	CASED HOLE TOP				SURFACE Feet				
LEAD SLURRY									
					CU.FT				
ANN	4,800	TO	1,500	0.2278	751.59	7-7/8" (For Gauge hole)			
	1,500	TO	0	0.3236	485.34	9-5/8" X 4-1/2" Casing Annulus			
ANN EXCESS					15%	185.54			
					1422.46	541 SACKS	1422	CU.FT.	
TAIL SLURRY									
					CU.FT				
CSG	9,413	TO	9,368	0.0838	3.77				
ANN	9,413	TO	4,800	0.2278	1050.63				
ANN EXCESS					15%	157.59			
					1211.99	813 SACKS	1212	CU.FT.	
					DISPLACEMENT	139.8	BBLs		

3,000 psi BOP Minimum Requirements



3M CHOKE MANIFOLD EQUIPMENT — CONFIGURATION MAY VARY
 46812 Federal Register / Vol. 55, No. 225 / Friday, November 15, 1986 / Rules and Regulations



Construction

Tube: Black, oil and abrasion resistant HNBR for H₂S service.

Reinforcement: Multiple plies of bias laid textile cord for extra strength and flexibility. Spirally wound, high tensile, multiple strand cables to provide unsurpassed ruggedness and reliability to withstand sudden high pressure.

Cover: Special flame resistant red Neoprene (CR) with optional stainless steel armor.

Fittings: Integral connection flanged or hubbed.

Temperature: -40°F to 212°F.

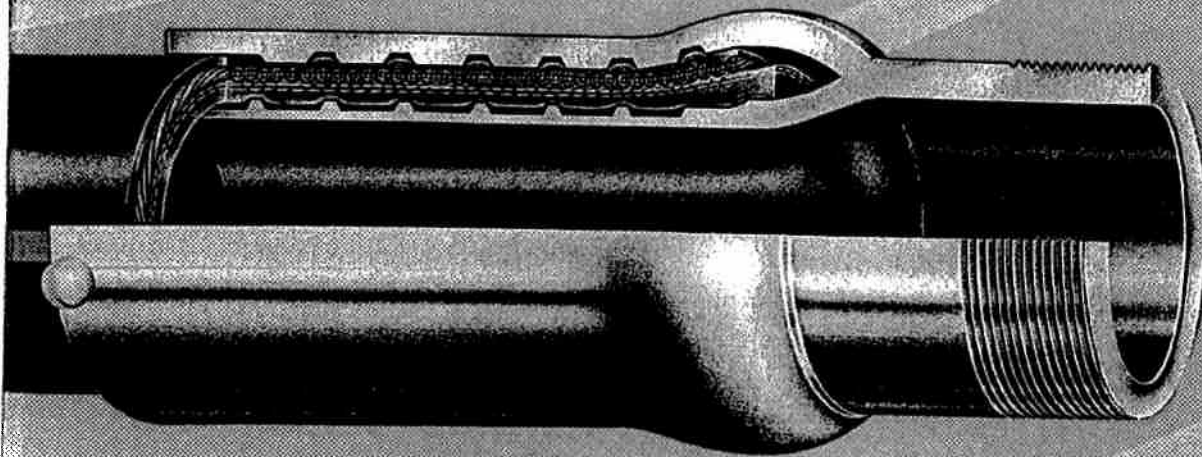
Branding: NRP Choke & Kill Hose, MADE IN USA.

Specifications

NRP Part Number	Hose ID (in)	Hose OD (in)	Rated WP (psi)	Test Pressure (psi)	Minimum Bend Radius	Weight per Foot (lbs)
5035-32	2.00	4.45	5,000	10,000	44	12.9
5035-40	2.50	4.60	5,000	10,000	48	13.9
5035-48	3.00	5.10	5,000	10,000	52	16.1
5040-32	2.00	4.68	10,000	15,000	48	22.4
5040-40	2.50	5.34	10,000	15,000	52	27.4
5040-48	3.00	5.84	10,000	15,000	56	28.8

Specifications

NRP Rotary Number	NRP Vibrator Number	Hose ID (in)	Hose OD (in)	Grade	Rated WP (psi)	Test Pressure (psi)	Minimum Bend Radius	Weight per Foot (lbs)	Weight of 2 Cplgs (lbs)	Cplg Thread API (in)
5501-40	5502-40	2.50	4.45	C	4,000	8,000	36	12.9	54	3
5501-48	5502-48	3.00	4.95	C	4,000	8,000	48	14.9	74	4
5501-56	5502-56	3.50	5.45	C	4,000	8,000	54	16.6	94	4
5603-40	5604-40	2.50	4.60	D	5,000	10,000	36	13.6	54	3
5603-48	5604-48	3.00	5.10	D	5,000	10,000	48	15.5	74	4
5603-56	5604-56	3.50	5.75	D	5,000	10,000	54	18.6	94	4



WEXPRO COMPANY

COLORADO (MOFFAT COUNTY)

SEC. 28 TWP. 12N RGE. 97W 6th P.M. (JDU)

JACKS DRAW UNIT #18

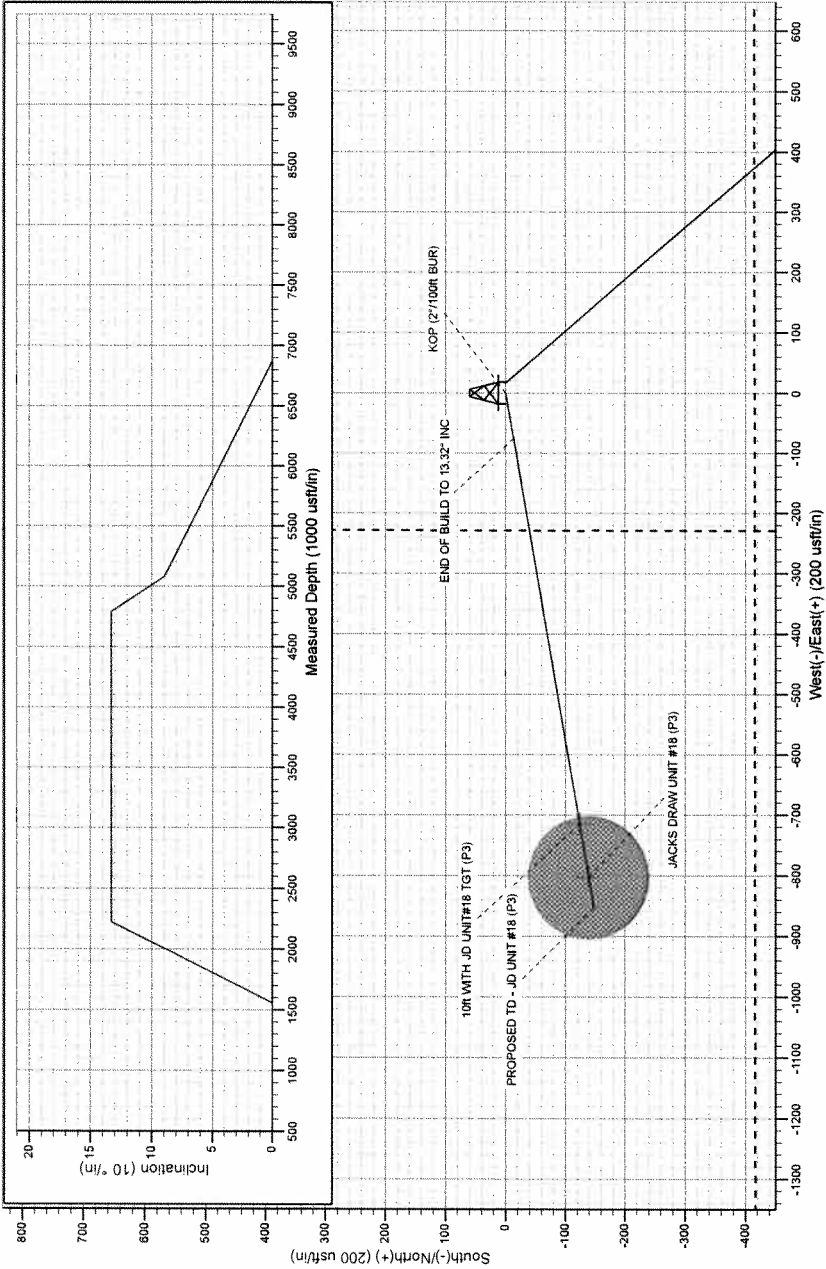
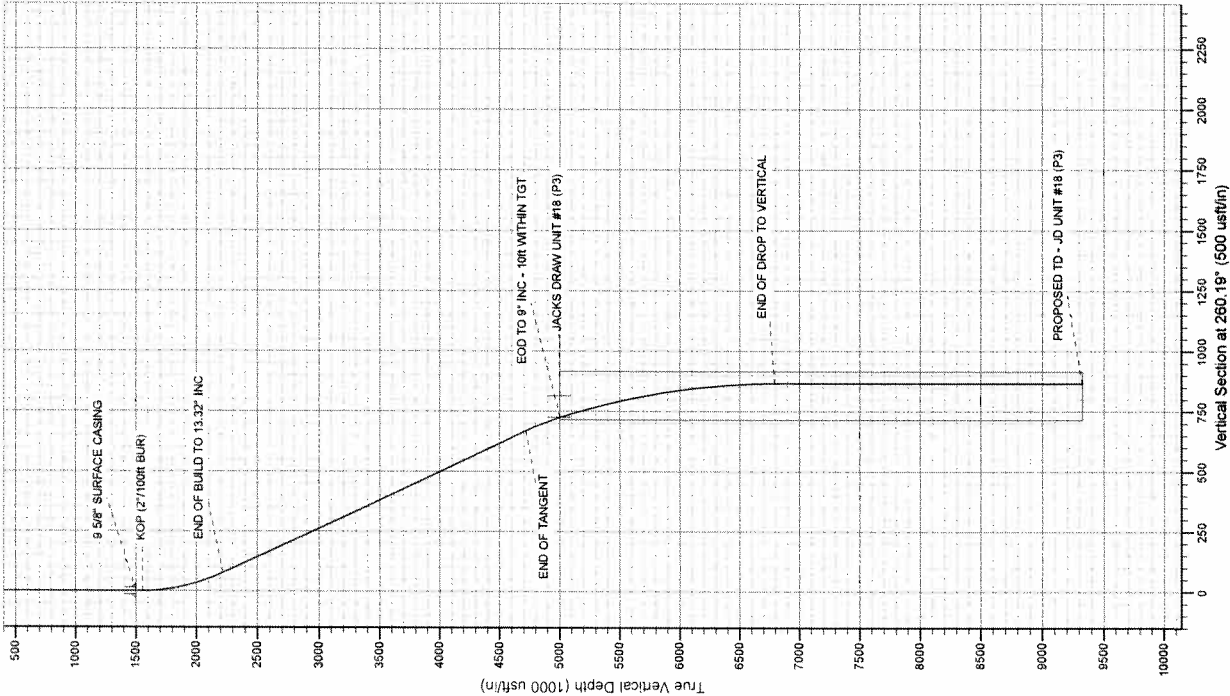
ORIGINAL WELLBORE

29 June, 2011

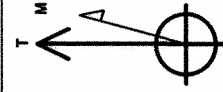
Plan: PROPOSAL #3



Project: COLORADO (MOFFAT COUNTY)
Site: SEC. 28 TWP. 12N RGE. 97W 6th P.M. (JDU)
Well: JACKS DRAW UNIT #18
Design: PROPOSAL #3



Azimuths to True North
Magnetic North: 10.78°
Magnetic Field
Strength: 53070.1snT
Dip Angle: 66.91°
Date: 03/10/2010
Model: IGRF2010



ANNOTATIONS					
TVD	MD	Inc	Azi	+N/-S	+E/-W
1556.5	1556.5	0.00	0.00	0.0	0.0
2216.5	2222.5	13.32	260.19	-13.1	-75.9
4717.5	4792.6	13.32	260.19	-114.0	-659.4
5000.0	5080.6	9.00	260.19	-123.5	-714.3
6792.6	6880.6	0.00	0.00	-147.6	-853.4
9325.0	9413.0	0.00	0.00	-147.6	-853.4

Annotation
KOP (2'100ft BUR)
END OF BUILD TO 13.32" INC
END OF TANGENT
EOD TO 9" INC - 10ft WITHIN TGT
END OF DROP TO VERTICAL
PROPOSED TD - JD UNIT #18 (P3)

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect
1556.5	1556.5	0.00	0.00	0.0	0.0	0.0
2216.5	2222.5	13.32	260.19	-13.1	-75.9	77.1
4717.5	4792.6	13.32	260.19	-114.0	-659.4	669.2
5000.0	5080.6	9.00	260.19	-123.5	-714.3	724.9
6792.6	6880.6	0.00	0.00	-147.6	-853.4	866.0
9325.0	9413.0	0.00	0.00	-147.6	-853.4	866.0

Planning Report

Database:	EDM_5000_1_7	Local Co-ordinate Reference:	Well JACKS DRAW UNIT #18
Company:	WEXPRO COMPANY	TVD Reference:	KB @ 6597.0usft
Project:	COLORADO (MOFFAT COUNTY)	MD Reference:	KB @ 6597.0usft
Site:	SEC. 28 TWP. 12N RGE. 97W 6th P.M. (JDU)	North Reference:	True
Well:	JACKS DRAW UNIT #18	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #3		

Project	COLORADO (MOFFAT COUNTY)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site	SEC. 28 TWP. 12N RGE. 97W 6th P.M. (JDU)				
Site Position:		Northing:	1,610,622.39usft	Latitude:	40° 58' 33.571 N
From:	Lat/Long	Easting:	2,226,710.12usft	Longitude:	108° 18' 2.812 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	-1.81 °

Well	JACKS DRAW UNIT #18					
Well Position	+N/-S	0.0 usft	Northing:	1,610,622.39 usft	Latitude:	40° 58' 33.571 N
	+E/-W	0.0 usft	Easting:	2,226,710.12 usft	Longitude:	108° 18' 2.812 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft	Ground Level:	6,569.0 usft

Wellbore	ORIGINAL WELLBORE				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	03/10/2010	10.78	66.91	53,070

Design	PROPOSAL #3				
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Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	260.19

Plan Sections											
MD (usft)	Inc (°)	Azi (°)	Vertical Depth	SS (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	-6,597.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,556.5	0.00	0.00	1,556.5	-5,040.5	0.0	0.0	0.00	0.00	0.00	0.00	
2,222.5	13.32	260.19	2,216.5	-4,380.5	-13.1	-75.9	2.00	2.00	0.00	260.19	
4,792.6	13.32	260.19	4,717.5	-1,879.5	-114.0	-659.4	0.00	0.00	0.00	0.00	
5,080.6	9.00	260.19	5,000.0	-1,597.0	-123.5	-714.3	1.50	-1.50	0.00	180.00	10ft WITH JD UNIT
6,880.6	0.00	0.00	6,792.6	195.6	-147.6	-853.4	0.50	-0.50	0.00	180.00	
9,413.0	0.00	0.00	9,325.0	2,728.0	-147.6	-853.4	0.00	0.00	0.00	0.00	

Planning Report

Database:	EDM_5000_1_7	Local Co-ordinate Reference:	Well JACKS DRAW UNIT #18
Company:	WEXPRO COMPANY	TVD Reference:	KB @ 6597.0usft
Project:	COLORADO (MOFFAT COUNTY)	MD Reference:	KB @ 6597.0usft
Site:	SEC. 28 TWP. 12N RGE. 97W 6th P.M. (JDU)	North Reference:	True
Well:	JACKS DRAW UNIT #18	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #3		

Planned Survey										
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	6,597.00	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	6,497.00	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	6,397.00	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	6,297.00	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	6,197.00	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	6,097.00	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	5,997.00	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	5,897.00	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	5,797.00	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	5,697.00	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	5,597.00	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	5,497.00	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	5,397.00	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	5,297.00	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	5,197.00	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	5,097.00	0.0	0.0	0.0	0.00	0.00	0.00
KOP (2°/100ft BUR)										
1,556.5	0.00	0.00	1,556.5	5,040.53	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.87	260.19	1,600.0	4,997.00	-0.1	-0.3	0.3	2.00	2.00	0.00
1,700.0	2.87	260.19	1,699.9	4,897.06	-0.6	-3.5	3.6	2.00	2.00	0.00
1,800.0	4.87	260.19	1,799.7	4,797.29	-1.8	-10.2	10.3	2.00	2.00	0.00
1,900.0	6.87	260.19	1,899.2	4,697.82	-3.5	-20.3	20.6	2.00	2.00	0.00
2,000.0	8.87	260.19	1,998.2	4,598.77	-5.8	-33.8	34.3	2.00	2.00	0.00
2,100.0	10.87	260.19	2,096.7	4,500.26	-8.8	-50.7	51.4	2.00	2.00	0.00
2,200.0	12.87	260.19	2,194.6	4,402.40	-12.3	-70.9	72.0	2.00	2.00	0.00
END OF BUILD TO 13.32° INC										
2,222.5	13.32	260.19	2,216.5	4,380.52	-13.1	-75.9	77.1	2.00	2.00	0.00
2,300.0	13.32	260.19	2,291.9	4,305.07	-16.2	-93.5	94.9	0.00	0.00	0.00
2,400.0	13.32	260.19	2,389.2	4,207.76	-20.1	-116.2	118.0	0.00	0.00	0.00
2,500.0	13.32	260.19	2,486.6	4,110.45	-24.0	-138.9	141.0	0.00	0.00	0.00
2,600.0	13.32	260.19	2,583.9	4,013.14	-28.0	-161.6	164.0	0.00	0.00	0.00
2,700.0	13.32	260.19	2,681.2	3,915.83	-31.9	-184.4	187.1	0.00	0.00	0.00
2,800.0	13.32	260.19	2,778.5	3,818.52	-35.8	-207.1	210.1	0.00	0.00	0.00
2,900.0	13.32	260.19	2,875.8	3,721.21	-39.7	-229.8	233.2	0.00	0.00	0.00
3,000.0	13.32	260.19	2,973.1	3,623.90	-43.7	-252.5	256.2	0.00	0.00	0.00
3,100.0	13.32	260.19	3,070.4	3,526.59	-47.6	-275.2	279.2	0.00	0.00	0.00
3,200.0	13.32	260.19	3,167.7	3,429.28	-51.5	-297.9	302.3	0.00	0.00	0.00
3,300.0	13.32	260.19	3,265.0	3,331.97	-55.4	-320.6	325.3	0.00	0.00	0.00
3,400.0	13.32	260.19	3,362.3	3,234.66	-59.4	-343.3	348.4	0.00	0.00	0.00
3,500.0	13.32	260.19	3,459.6	3,137.35	-63.3	-366.0	371.4	0.00	0.00	0.00
3,600.0	13.32	260.19	3,557.0	3,040.04	-67.2	-388.7	394.4	0.00	0.00	0.00
3,700.0	13.32	260.19	3,654.3	2,942.73	-71.1	-411.4	417.5	0.00	0.00	0.00
3,800.0	13.32	260.19	3,751.6	2,845.42	-75.1	-434.1	440.5	0.00	0.00	0.00
3,900.0	13.32	260.19	3,848.9	2,748.11	-79.0	-456.8	463.6	0.00	0.00	0.00
4,000.0	13.32	260.19	3,946.2	2,650.80	-82.9	-479.5	486.6	0.00	0.00	0.00
4,100.0	13.32	260.19	4,043.5	2,553.49	-86.8	-502.2	509.6	0.00	0.00	0.00
4,200.0	13.32	260.19	4,140.8	2,456.18	-90.8	-524.9	532.7	0.00	0.00	0.00
4,300.0	13.32	260.19	4,238.1	2,358.87	-94.7	-547.6	555.7	0.00	0.00	0.00
4,400.0	13.32	260.19	4,335.4	2,261.56	-98.6	-570.3	578.7	0.00	0.00	0.00
A-4-G SD										
4,431.4	13.32	260.19	4,366.0	2,231.00	-99.8	-577.4	586.0	0.00	0.00	0.00
4,500.0	13.32	260.19	4,432.7	2,164.25	-102.5	-593.0	601.8	0.00	0.00	0.00
4,600.0	13.32	260.19	4,530.1	2,066.94	-106.5	-615.7	624.8	0.00	0.00	0.00

Planning Report

Database:	EDM_5000_1_7	Local Co-ordinate Reference:	Well JACKS DRAW UNIT #18
Company:	WEXPRO COMPANY	TVD Reference:	KB @ 6597.0usft
Project:	COLORADO (MOFFAT COUNTY)	MD Reference:	KB @ 6597.0usft
Site:	SEC. 28 TWP. 12N RGE. 97W 6th P.M. (JDU)	North Reference:	True
Well:	JACKS DRAW UNIT #18	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #3		

Planned Survey										
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,700.0	13.32	260.19	4,627.4	1,969.63	-110.4	-638.4	647.9	0.00	0.00	0.00
[BIG WATER SD]										
4,741.8	13.32	260.19	4,668.0	1,929.00	-112.0	-647.9	657.5	0.00	0.00	0.00
END OF TANGENT										
4,792.6	13.32	260.19	4,717.5	1,879.49	-114.0	-659.4	669.2	0.00	0.00	0.00
4,800.0	13.21	260.19	4,724.7	1,872.32	-114.3	-661.1	670.9	1.50	-1.50	0.00
4,900.0	11.71	260.19	4,822.3	1,774.68	-118.0	-682.3	692.5	1.50	-1.50	0.00
5,000.0	10.21	260.19	4,920.5	1,676.51	-121.2	-701.1	711.5	1.50	-1.50	0.00
A-4-H SD										
5,018.8	9.93	260.19	4,939.0	1,658.00	-121.8	-704.3	714.8	1.50	-1.50	0.00
END OF DROP TO 9° INC - 10ft WITHIN TGT										
5,080.6	9.00	260.19	5,000.0	1,597.00	-123.5	-714.3	724.9	1.50	-1.50	0.00
5,100.0	8.90	260.19	5,019.1	1,577.87	-124.0	-717.3	727.9	0.50	-0.50	0.00
5,200.0	8.40	260.19	5,118.0	1,479.01	-126.6	-732.1	743.0	0.50	-0.50	0.00
FORT UNION FORMATION										
5,219.2	8.31	260.19	5,137.0	1,460.00	-127.1	-734.9	745.8	0.50	-0.50	0.00
5,300.0	7.90	260.19	5,217.0	1,380.02	-129.0	-746.1	757.2	0.50	-0.50	0.00
5,400.0	7.40	260.19	5,316.1	1,280.91	-131.3	-759.2	770.5	0.50	-0.50	0.00
5,500.0	6.90	260.19	5,415.3	1,181.69	-133.4	-771.5	782.9	0.50	-0.50	0.00
5,600.0	6.40	260.19	5,514.6	1,082.37	-135.4	-782.9	794.5	0.50	-0.50	0.00
5,700.0	5.90	260.19	5,614.1	982.94	-137.2	-793.5	805.3	0.50	-0.50	0.00
5,800.0	5.40	260.19	5,713.6	883.43	-138.9	-803.2	815.1	0.50	-0.50	0.00
5,900.0	4.90	260.19	5,813.2	783.83	-140.4	-812.0	824.1	0.50	-0.50	0.00
6,000.0	4.40	260.19	5,912.8	684.16	-141.8	-820.0	832.2	0.50	-0.50	0.00
L.F.U. ALLEN 8A										
6,070.4	4.05	260.19	5,983.0	614.00	-142.7	-825.1	837.4	0.50	-0.50	0.00
6,100.0	3.90	260.19	6,012.6	584.43	-143.0	-827.2	839.4	0.50	-0.50	0.00
L.F.U. ALLEN 8B										
6,112.5	3.84	260.19	6,025.0	572.00	-143.2	-828.0	840.3	0.50	-0.50	0.00
L.F.U. ALLEN 8C										
6,168.6	3.56	260.19	6,081.0	516.00	-143.8	-831.6	843.9	0.50	-0.50	0.00
6,200.0	3.40	260.19	6,112.4	484.63	-144.1	-833.4	845.8	0.50	-0.50	0.00
L.F.U. ALLEN 8D										
6,212.7	3.34	260.19	6,125.0	472.00	-144.2	-834.2	846.6	0.50	-0.50	0.00
L.F.U. ALLEN 8E										
6,250.7	3.15	260.19	6,163.0	434.00	-144.6	-836.3	848.7	0.50	-0.50	0.00
6,300.0	2.90	260.19	6,212.2	384.78	-145.0	-838.9	851.3	0.50	-0.50	0.00
L.F.U. ALLEN 8E1										
6,322.8	2.79	260.19	6,235.0	362.00	-145.2	-840.0	852.4	0.50	-0.50	0.00
L.F.U. ALLEN 8F										
6,381.9	2.49	260.19	6,294.0	303.00	-145.7	-842.7	855.2	0.50	-0.50	0.00
6,400.0	2.40	260.19	6,312.1	284.89	-145.8	-843.4	855.9	0.50	-0.50	0.00
L.F.U. ALLEN 8G										
6,425.9	2.27	260.19	6,338.0	259.00	-146.0	-844.5	857.0	0.50	-0.50	0.00
L.F.U. ALLEN 8H										
6,469.9	2.05	260.19	6,382.0	215.00	-146.3	-846.1	858.7	0.50	-0.50	0.00
6,500.0	1.90	260.19	6,412.0	184.96	-146.5	-847.1	859.7	0.50	-0.50	0.00
L.F.U. ALLEN 8I										
6,541.0	1.70	260.19	6,453.0	144.00	-146.7	-848.4	861.0	0.50	-0.50	0.00
6,600.0	1.40	260.19	6,512.0	85.00	-147.0	-850.0	862.6	0.50	-0.50	0.00
L.F.U. ALLEN 9A										
6,637.0	1.22	260.19	6,549.0	48.00	-147.1	-850.8	863.4	0.50	-0.50	0.00

Planning Report

Database:	EDM_5000_1_7	Local Co-ordinate Reference:	Well JACKS DRAW UNIT #18
Company:	WEXPRO COMPANY	TVD Reference:	KB @ 6597.0usft
Project:	COLORADO (MOFFAT COUNTY)	MD Reference:	KB @ 6597.0usft
Site:	SEC. 28 TWP. 12N RGE. 97W 6th P.M. (JDU)	North Reference:	True
Well:	JACKS DRAW UNIT #18	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #3		

Planned Survey										
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
L.F.U. ALLEN 9B										
6,674.0	1.03	260.19	6,586.0	11.00	-147.2	-851.5	864.2	0.50	-0.50	0.00
6,700.0	0.90	260.19	6,612.0	-14.98	-147.3	-852.0	864.6	0.50	-0.50	0.00
L.F.U. ALLEN 9C										
6,774.0	0.53	260.19	6,686.0	-89.00	-147.5	-852.9	865.5	0.50	-0.50	0.00
6,800.0	0.40	260.19	6,712.0	-114.97	-147.5	-853.1	865.7	0.50	-0.50	0.00
END OF DROP TO VERTICAL										
6,880.6	0.00	0.00	6,792.6	-195.61	-147.6	-853.4	866.0	0.50	-0.50	0.00
L.F.U. ALLEN 11										
6,899.0	0.00	0.00	6,811.0	-214.00	-147.6	-853.4	866.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,812.0	-214.97	-147.6	-853.4	866.0	0.00	0.00	0.00
7,000.0	0.00	0.00	6,912.0	-314.97	-147.6	-853.4	866.0	0.00	0.00	0.00
L.F.U. ALLEN 11A										
7,089.0	0.00	0.00	7,001.0	-404.00	-147.6	-853.4	866.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,012.0	-414.97	-147.6	-853.4	866.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,112.0	-514.97	-147.6	-853.4	866.0	0.00	0.00	0.00
L.F.U. ALLEN 11B										
7,267.0	0.00	0.00	7,179.0	-582.00	-147.6	-853.4	866.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,212.0	-614.97	-147.6	-853.4	866.0	0.00	0.00	0.00
L.F.U. ALLEN 11C										
7,347.0	0.00	0.00	7,259.0	-662.00	-147.6	-853.4	866.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,312.0	-714.97	-147.6	-853.4	866.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,412.0	-814.97	-147.6	-853.4	866.0	0.00	0.00	0.00
L.F.U. 4600										
7,582.0	0.00	0.00	7,494.0	-897.00	-147.6	-853.4	866.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,512.0	-914.97	-147.6	-853.4	866.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,612.0	-1,014.97	-147.6	-853.4	866.0	0.00	0.00	0.00
L.F.U. ALLEN 10A										
7,786.0	0.00	0.00	7,698.0	-1,101.00	-147.6	-853.4	866.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,712.0	-1,114.97	-147.6	-853.4	866.0	0.00	0.00	0.00
L.F.U. ALLEN 10B										
7,897.0	0.00	0.00	7,809.0	-1,212.00	-147.6	-853.4	866.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,812.0	-1,214.97	-147.6	-853.4	866.0	0.00	0.00	0.00
L.F.U. ALLEN 10C										
7,949.0	0.00	0.00	7,861.0	-1,264.00	-147.6	-853.4	866.0	0.00	0.00	0.00
8,000.0	0.00	0.00	7,912.0	-1,314.97	-147.6	-853.4	866.0	0.00	0.00	0.00
L.F.U. ALLEN 8										
8,013.0	0.00	0.00	7,925.0	-1,328.00	-147.6	-853.4	866.0	0.00	0.00	0.00
L.F.U. ALLEN 6A										
8,080.0	0.00	0.00	7,992.0	-1,395.00	-147.6	-853.4	866.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,012.0	-1,414.97	-147.6	-853.4	866.0	0.00	0.00	0.00
L.F.U. ALLEN 6B										
8,144.0	0.00	0.00	8,056.0	-1,459.00	-147.6	-853.4	866.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,112.0	-1,514.97	-147.6	-853.4	866.0	0.00	0.00	0.00
L.F.U. ALLEN 6C										
8,202.0	0.00	0.00	8,114.0	-1,517.00	-147.6	-853.4	866.0	0.00	0.00	0.00
L.F.U. ALLEN 6D										
8,262.0	0.00	0.00	8,174.0	-1,577.00	-147.6	-853.4	866.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,212.0	-1,614.97	-147.6	-853.4	866.0	0.00	0.00	0.00
L.F.U. ALLEN 6E										
8,306.0	0.00	0.00	8,218.0	-1,621.00	-147.6	-853.4	866.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,312.0	-1,714.97	-147.6	-853.4	866.0	0.00	0.00	0.00

Planning Report

Database:	EDM_5000_1_7	Local Co-ordinate Reference:	Well JACKS DRAW UNIT #18
Company:	WEXPRO COMPANY	TVD Reference:	KB @ 6597.0usft
Project:	COLORADO (MOFFAT COUNTY)	MD Reference:	KB @ 6597.0usft
Site:	SEC. 28 TWP. 12N RGE. 97W 6th P.M. (JDU)	North Reference:	True
Well:	JACKS DRAW UNIT #18	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #3		

Planned Survey										
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,500.0	0.00	0.00	8,412.0	-1,814.97	-147.6	-853.4	866.0	0.00	0.00	0.00
L.F.U. ALLEN 6F										
8,505.0	0.00	0.00	8,417.0	-1,820.00	-147.6	-853.4	866.0	0.00	0.00	0.00
L.F.U. ALLEN 6G										
8,552.0	0.00	0.00	8,464.0	-1,867.00	-147.6	-853.4	866.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,512.0	-1,914.97	-147.6	-853.4	866.0	0.00	0.00	0.00
L.F.U. ALLEN 6H										
8,634.0	0.00	0.00	8,546.0	-1,949.00	-147.6	-853.4	866.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,612.0	-2,014.97	-147.6	-853.4	866.0	0.00	0.00	0.00
L.F.U. ALLEN 6I										
8,714.0	0.00	0.00	8,626.0	-2,029.00	-147.6	-853.4	866.0	0.00	0.00	0.00
L.F.U. ALLEN 6J										
8,753.0	0.00	0.00	8,665.0	-2,068.00	-147.6	-853.4	866.0	0.00	0.00	0.00
L.F.U. ALLEN 6K										
8,779.0	0.00	0.00	8,691.0	-2,094.00	-147.6	-853.4	866.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,712.0	-2,114.97	-147.6	-853.4	866.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,812.0	-2,214.97	-147.6	-853.4	866.0	0.00	0.00	0.00
9,000.0	0.00	0.00	8,912.0	-2,314.97	-147.6	-853.4	866.0	0.00	0.00	0.00
LNCE										
9,063.0	0.00	0.00	8,975.0	-2,378.00	-147.6	-853.4	866.0	0.00	0.00	0.00
9,100.0	0.00	0.00	9,012.0	-2,414.97	-147.6	-853.4	866.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,112.0	-2,514.97	-147.6	-853.4	866.0	0.00	0.00	0.00
9,300.0	0.00	0.00	9,212.0	-2,614.97	-147.6	-853.4	866.0	0.00	0.00	0.00
9,400.0	0.00	0.00	9,312.0	-2,714.97	-147.6	-853.4	866.0	0.00	0.00	0.00
PROPOSED TD - JD UNIT #18 (P3)										
9,413.0	0.00	0.00	9,325.0	-2,727.97	-147.6	-853.4	866.0	0.00	0.00	0.00

Casing Points				
MD (usft)	TVD (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,500.0	1,500.0	9 5/8" SURFACE CASING	9-5/8	12-3/4

Planning Report

Database:	EDM_5000_1_7	Local Co-ordinate Reference:	Well JACKS DRAW UNIT #18
Company:	WEXPRO COMPANY	TVD Reference:	KB @ 6597.0usft
Project:	COLORADO (MOFFAT COUNTY)	MD Reference:	KB @ 6597.0usft
Site:	SEC. 28 TWP. 12N RGE. 97W 6th P.M. (JDU)	North Reference:	True
Well:	JACKS DRAW UNIT #18	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #3		

Formations					
MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,431.4	4,366.0	A-4-G SD			
4,741.8	4,668.0	(BIG WATER SD)			
5,018.8	4,939.0	A-4-H SD			
5,219.2	5,137.0	FORT UNION FORMATION			
6,070.4	5,983.0	L.F.U. ALLEN 8A			
6,112.5	6,025.0	L.F.U. ALLEN 8B			
6,168.6	6,081.0	L.F.U. ALLEN 8C			
6,212.7	6,125.0	L.F.U. ALLEN 8D			
6,250.7	6,163.0	L.F.U. ALLEN 8E			
6,322.8	6,235.0	L.F.U. ALLEN 8E1			
6,381.9	6,294.0	L.F.U. ALLEN 8F			
6,425.9	6,338.0	L.F.U. ALLEN 8G			
6,469.9	6,382.0	L.F.U. ALLEN 8H			
6,541.0	6,453.0	L.F.U. ALLEN 8I			
6,637.0	6,549.0	L.F.U. ALLEN 9A			
6,674.0	6,586.0	L.F.U. ALLEN 9B			
6,774.0	6,686.0	L.F.U. ALLEN 9C			
6,899.0	6,811.0	L.F.U. ALLEN 11			
7,089.0	7,001.0	L.F.U. ALLEN 11A			
7,267.0	7,179.0	L.F.U. ALLEN 11B			
7,347.0	7,259.0	L.F.U. ALLEN 11C			
7,582.0	7,494.0	L.F.U 4600			
7,786.0	7,698.0	L.F.U. ALLEN 10A			
7,897.0	7,809.0	L.F.U. ALLEN 10B			
7,949.0	7,861.0	L.F.U. ALLEN 10C			
8,013.0	7,925.0	L.F.U. ALLEN 6			
8,080.0	7,992.0	L.F.U. ALLEN 6A			
8,144.0	8,056.0	L.F.U. ALLEN 6B			
8,202.0	8,114.0	L.F.U. ALLEN 6C			
8,262.0	8,174.0	L.F.U. ALLEN 6D			
8,306.0	8,218.0	L.F.U. ALLEN 6E			
8,505.0	8,417.0	L.F.U. ALLEN 6F			
8,552.0	8,464.0	L.F.U. ALLEN 6G			
8,634.0	8,546.0	L.F.U. ALLEN 6H			
8,714.0	8,626.0	L.F.U. ALLEN 6I			
8,753.0	8,665.0	L.F.U. ALLEN 6J			
8,779.0	8,691.0	L.F.U. ALLEN 6K			
9,063.0	8,975.0	LNCE			

Planning Report

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Company:	WEXPRO COMPANY	TVD Reference:	KB @ 6597.0usft
Project:	COLORADO (MOFFAT COUNTY)	MD Reference:	KB @ 6597.0usft
Site:	SEC. 28 TWP. 12N RGE. 97W 6th P.M. (JDU)	North Reference:	True
Well:	JACKS DRAW UNIT #18	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #3		

Plan Annotations				
Local Coordinates				
MD (usft)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Comment
1,556.5	1,556.5	0.0	0.0	KOP (2"/100ft BUR)
2,222.5	2,216.5	-13.1	-75.9	END OF BUILD TO 13.32° INC
4,792.6	4,717.5	-114.0	-659.4	END OF TANGENT
5,080.6	5,000.0	-123.5	-714.3	END OF DROP TO 9° INC - 10ft WITHIN TGT
6,880.6	6,792.6	-147.6	-853.4	END OF DROP TO VERTICAL
9,413.0	9,325.0	-147.6	-853.4	PROPOSED TD - JD UNIT #18 (P3)