

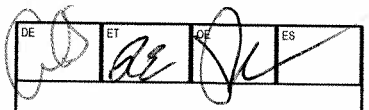


02305075

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.)

RECEIVED

JUL 22 2011

COGCC 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- 081-07634-00~	OGCC Facility ID Number 69800
6. Well/Facility Name: Jacks Draw Unit*	7. Well/Facility Number: 20*
8. Location (QtrQtr, Sec, Twp, Rng, Meridian): NENW 28-12N-97W*	6 PM
9. County: Moffat*	10. Field Name: Powder Wash*
11. Federal, Indian or State Lease Number: COD-0040867B*	

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

General Notice

PA COC 097671A

☒ 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:				
Change of Surface Footage to Exterior Section Lines:				
Change of Bottomhole Footage from Exterior Section Lines:				
Change of Bottomhole Footage to Exterior Section Lines:				

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: _____

GPS DATA:

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

☐ CHANGE SPACING UNIT

Formation	Formation Code	Spacing order number	Unit Acreage	Unit configuration

☐ Remove from surface bond

Signed surface use agreement attached

☐ CHANGE OF OPERATOR (prior to drilling):

Effective Date: _____

Plugging Bond: ☐ Blanket ☐ Individual

☐ CHANGE WELL NAME

From: _____ NUMBER _____

To: _____

Effective Date: _____

☐ ABANDONED LOCATION:

Was location ever built? ☐ Yes ☐ No

Is site ready for inspection? ☐ Yes ☐ No

Date Ready for Inspection: _____

☐ NOTICE OF CONTINUED SHUT IN STATUS

Date well shut in or temporarily abandoned: _____

Has Production Equipment been removed from site? ☐ Yes ☐ No

MIT required if shut in longer than two years. Date of last MIT _____

☐ SPUD DATE: _____

☐ REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)

☐ 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

☒ Notice of Intent

Approximate Start Date: August 1, 2011

☐ Report of Work Done

Date Work Completed: _____

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, Jr. 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. 20
Revised July 11, 2011
MOFFAT COUNTY, COLORADO**

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

Wasatch	MD Surface	TVD Surface
A-4-G SD	4,533'	4,372', gas - Secondary Objective
A-4-H SD	5,125'	4,945', gas - Secondary Objective
Fort Union	5,327'	5,145'
Allen 8 - A	5,175'	5,988'
Allen 8 - B	6,226'	6,038', gas, - Major Objective
Allen 8 - E	6,357'	6,169'
Allen 8 - F	6,487'	6,299', gas, - Major Objective
Allen 8 - G	6,527'	6,339'
Allen 8 - H	6,576'	6,388'
Allen 9 - A	6,739'	6,551', gas, - Secondary Objective
Allen 9 - B	6,777'	6,589', gas, - Secondary Objective
Allen 9 - C	6,877'	6,689'
Allen 11	7,001'	6,813'
L. F. U. 4600	7,681'	7,493'
Allen 10 - B	7,995'	7,807'
Allen 10 - C	8,054'	7,866'
Allen 6 - A	8,181'	7,993'
Allen 6 - G	8,654'	8,466', gas, - Major Objective
Allen 6 - H	8,736'	8,548', gas, - Major Objective
Allen 6 - K	8,878'	8,690', gas, - Major Objective
Lance	9,086'	8,897', gas, - Major Objective
Total Depth	9,436'	9,247'

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	9,436' MD 9,247' 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: 1218 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 1500' 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 183° F and a BHP of 3500 psi are possible.

7. ANTICIPATED STARTING DATE: August 1, 2011

DURATION OF OPERATION: 25 days

JACKS DRAW NO 20 : 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 11.4PPG	
	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	
EXCESS:	8.921 " ID x 4-1/2" CASING ANNULUS	0.3236 cu.ft./lin.ft	
CEMENT YIELD:	LEAD	15%	
	TAIL	2.63 cu.ft./sack 11.5 PPG	
TOTAL DEPTH		1.49 cu.ft./sack 14.2 PPG	
TOP OF TAIL		9,436 Feet	
TOP OF LEAD		4,800 Feet	
	OPEN HOLE TOP	1,500 Feet	
	CASED HOLE TOP	SURFACE Feet	

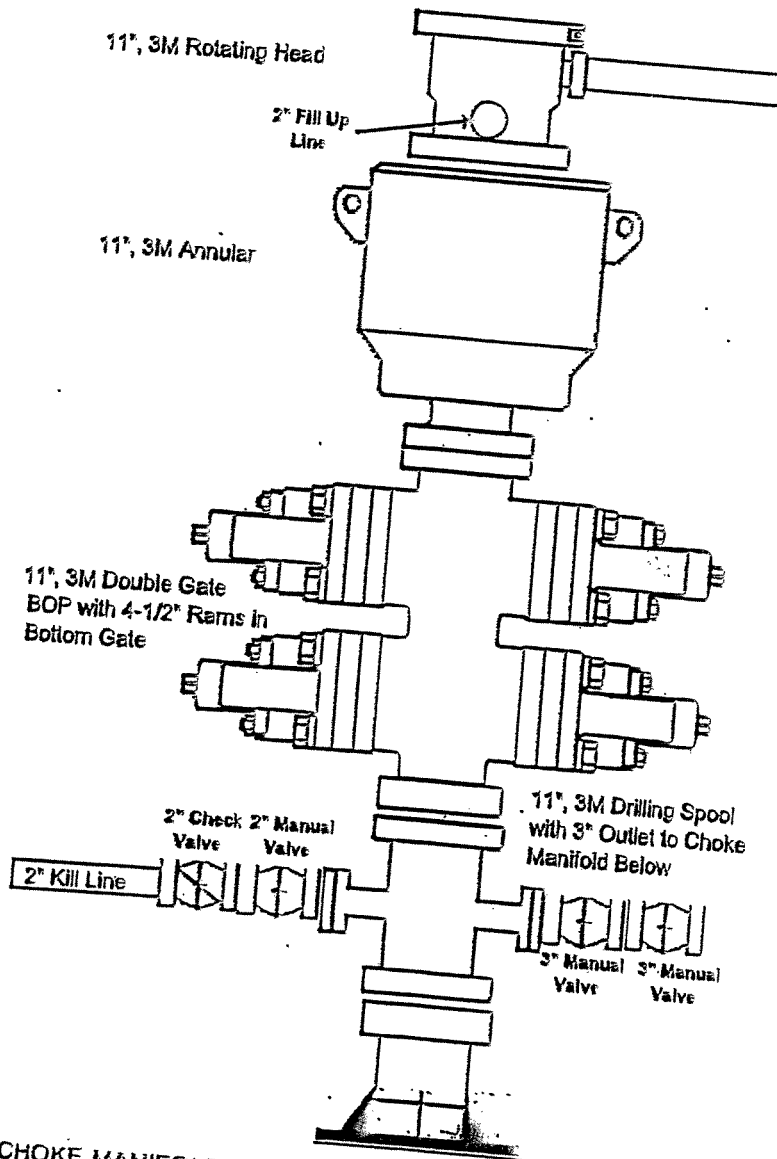
LEAD SLURRY

					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.

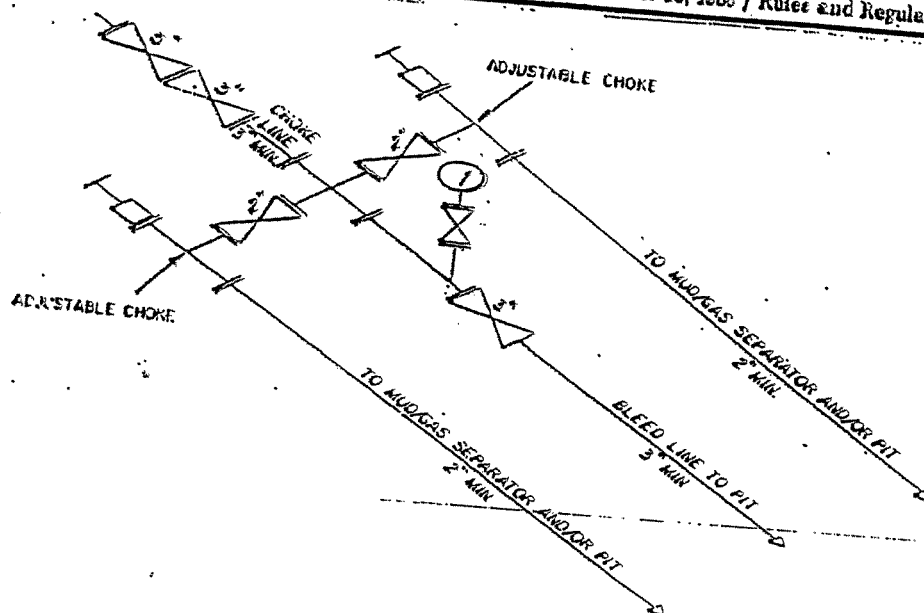
TAIL SLURRY

					CU.FT	
CSG	9,436	TO	9,391	0.0838	3.77	
ANN	9,436	TO	4,800	0.2278	1055.86	
ANN EXCESS				15%	158.38	
					1218.01	817 SACKS 1218 CU.FT.
					DISPLACEMENT	140.2 BBLS

3,000 psi BOP Minimum Requirements



3M CHOKE MANIFOLD EQUIPMENT — CONFIGURATION MAY VARY
46812 Federal Register / Vol. 53, No. 223 / Friday, November 15, 1988 / 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.

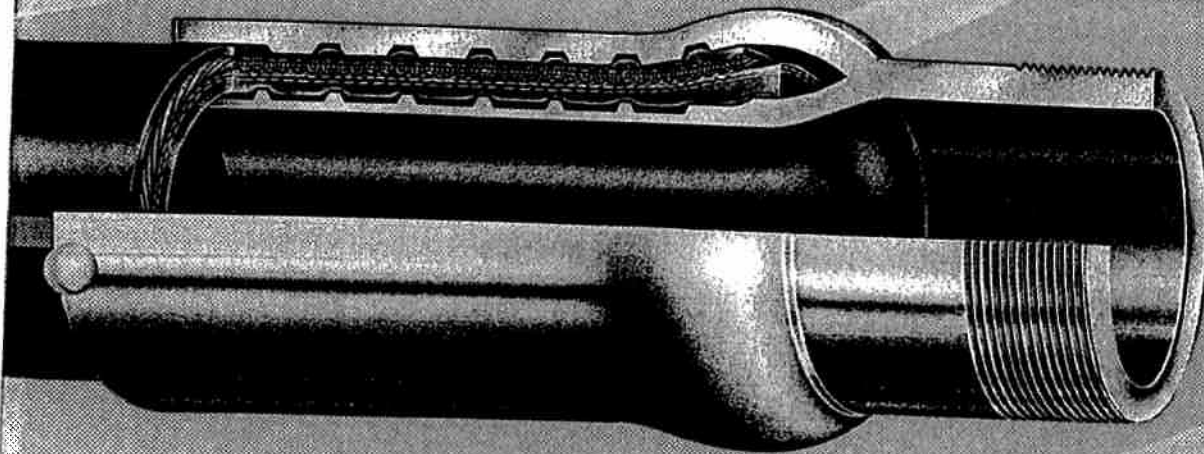
Branding: NRP Choke & Kill Hose. MADE IN USA.

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 # 20

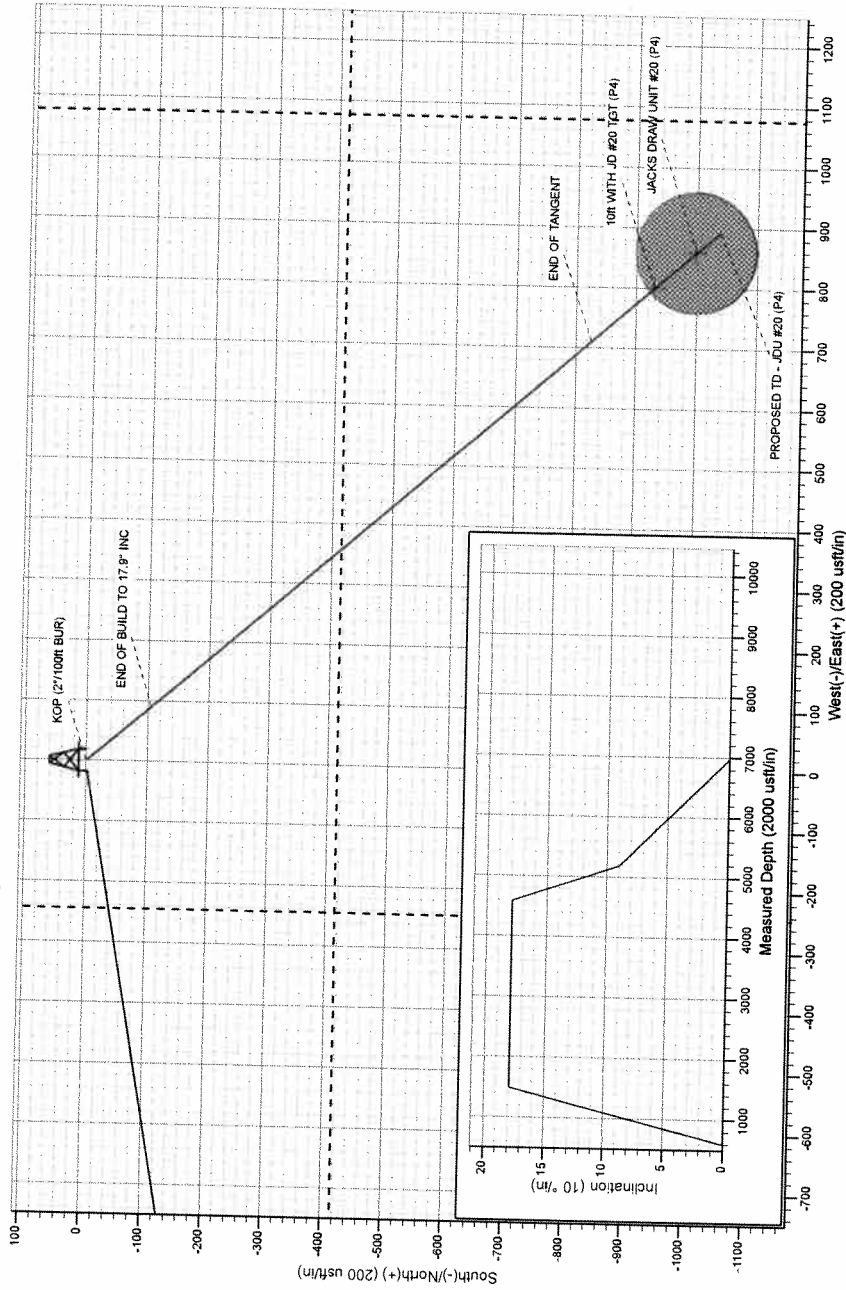
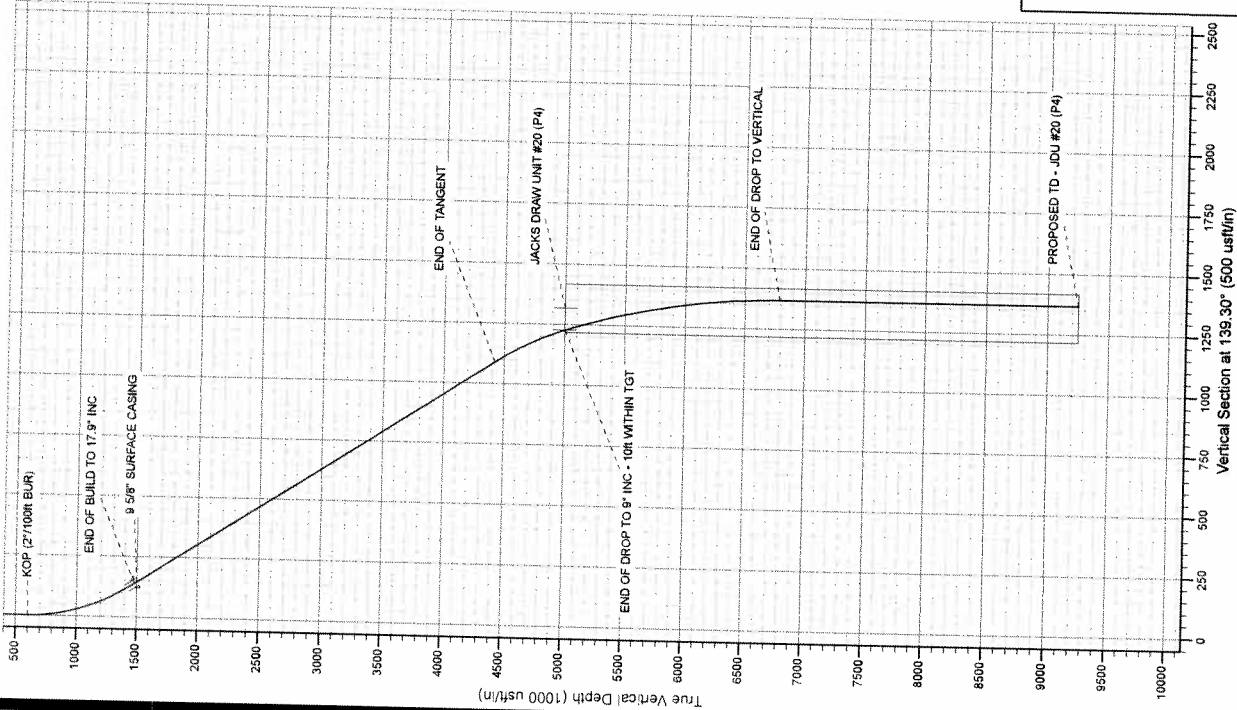
ORIGINAL WELLBORE

29 June, 2011

Plan: PROPOSAL #4



Project: COLORADO (MOFFAT COUNTY)
Site: SEC. 28 TWP. 12N RGE. 97W 6th P.M. (JDU)
Well: JACKS DRAW UNIT # 20
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #4



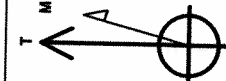
Azimuths to True North
Magnetic North: 10.78°

Magnetic Field
Strength: 53070.2snT

Dip Angle: 66.91°

Date: 03/10/2010

Model: IGRF2010



ANNOTATIONS									
TVD	MD	Inc	Azi	+N/S	+E/W	Vsect	Annotation		
600.0	600.0	0.00	0.00	0.0	0.0	0.0	KOP (27'100ft BUR)		
1480.7	1485.2	17.90	139.30	-105.2	90.5	138.7	END OF BUILD TO 17.9° INC		
4423.3	4587.5	17.90	139.30	-825.9	710.4	1089.4	END OF TANGENT		
6000.0	6181.1	9.00	139.30	-930.5	800.3	1227.3	EOD TO 9° INC - 10ft WITHIN TGT		
8792.6	8951.1	0.00	0.00	-1037.4	892.3	1368.4	END OF DROP TO VERTICAL		
9247.0	9435.5	0.00	0.00	-1037.4	892.3	1368.4	PROPOSED TD - JDU #20 (P4)		

Planning Report

Database:	EDM_5000_1_7	Local Co-ordinate Reference:	Well JACKS DRAW UNIT # 20
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 # 20	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #4		

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:			
From:	Lat/Long	Northing:	1,610,622.39usft
Position Uncertainty:	0.0 usft	Easting:	2,226,710.12 usft
		Slot Radius:	13-3/16"
		Latitude:	40° 58' 33.571 N
		Longitude:	108° 18' 2.812 W
		Grid Convergence:	-1.81 °

Well	JACKS DRAW UNIT # 20		
Well Position	+N/-S	0.7 usft	Northing:
	+E/-W	16.3 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	
			usft
		Latitude:	40° 58' 33.578 N
		Longitude:	108° 18' 2.599 W
		Ground Level:	6,570.0 usft

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

Design	PROPOSAL #4		
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Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			139.30

Plan Sections											
MD	Inc	Azi	Vertical	SS	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
(usft)	(°)	(°)	Depth	(usft)	(usft)	(usft)	Rate	Rate	Rate	(°)	
							(°/100usft)	(°/100usft)	(°/100usft)		
0.0	0.00	0.00	0.0	-6,597.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	-5,997.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,495.2	17.90	139.30	1,480.7	-5,116.3	-105.2	90.5	2.00	2.00	0.00	139.30	
4,587.5	17.90	139.30	4,423.3	-2,173.7	-825.9	710.4	0.00	0.00	0.00	0.00	
5,181.1	9.00	139.30	5,000.0	-1,597.0	-930.5	800.3	1.50	-1.50	0.00	180.00	10ft WITH JD #20 T
6,981.1	0.00	0.00	6,792.6	195.6	-1,037.4	892.3	0.50	-0.50	0.00	180.00	
9,435.5	0.00	0.00	9,247.0	2,650.0	-1,037.4	892.3	0.00	0.00	0.00	0.00	

Planning Report

Database:	EDM_5000_1_7	Local Co-ordinate Reference:	Well JACKS DRAW UNIT # 20
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 # 20	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #4		

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
KOP (2°/100ft BUR)										
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	2.00	139.30	700.0	5,897.02	-1.3	1.1	1.7	2.00	2.00	0.00
800.0	4.00	139.30	799.8	5,797.16	-5.3	4.6	7.0	2.00	2.00	0.00
900.0	6.00	139.30	899.5	5,697.55	-11.9	10.2	15.7	2.00	2.00	0.00
1,000.0	8.00	139.30	998.7	5,598.30	-21.1	18.2	27.9	2.00	2.00	0.00
1,100.0	10.00	139.30	1,097.5	5,499.53	-33.0	28.4	43.5	2.00	2.00	0.00
1,200.0	12.00	139.30	1,195.6	5,401.38	-47.5	40.8	62.6	2.00	2.00	0.00
1,300.0	14.00	139.30	1,293.1	5,303.94	-64.5	55.5	85.1	2.00	2.00	0.00
1,400.0	16.00	139.30	1,389.6	5,207.36	-84.1	72.4	111.0	2.00	2.00	0.00
END OF BUILD TO 17.9° INC										
1,495.2	17.90	139.30	1,480.7	5,116.33	-105.2	90.5	138.7	2.00	2.00	0.00
1,500.0	17.90	139.30	1,485.3	5,111.73	-106.3	91.4	140.2	0.00	0.00	0.00
1,600.0	17.90	139.30	1,580.4	5,016.57	-129.6	111.5	171.0	0.00	0.00	0.00
1,700.0	17.90	139.30	1,675.6	4,921.41	-152.9	131.5	201.7	0.00	0.00	0.00
1,800.0	17.90	139.30	1,770.7	4,826.26	-176.2	151.6	232.4	0.00	0.00	0.00
1,900.0	17.90	139.30	1,865.9	4,731.10	-199.5	171.6	263.2	0.00	0.00	0.00
2,000.0	17.90	139.30	1,961.1	4,635.94	-222.8	191.7	293.9	0.00	0.00	0.00
2,100.0	17.90	139.30	2,056.2	4,540.78	-246.1	211.7	324.7	0.00	0.00	0.00
2,200.0	17.90	139.30	2,151.4	4,445.63	-269.4	231.8	355.4	0.00	0.00	0.00
2,300.0	17.90	139.30	2,246.5	4,350.47	-292.7	251.8	386.1	0.00	0.00	0.00
2,400.0	17.90	139.30	2,341.7	4,255.31	-316.1	271.8	416.9	0.00	0.00	0.00
2,500.0	17.90	139.30	2,436.8	4,160.15	-339.4	291.9	447.6	0.00	0.00	0.00
2,600.0	17.90	139.30	2,532.0	4,065.00	-362.7	311.9	478.4	0.00	0.00	0.00
2,700.0	17.90	139.30	2,627.2	3,969.84	-386.0	332.0	509.1	0.00	0.00	0.00
2,800.0	17.90	139.30	2,722.3	3,874.68	-409.3	352.0	539.8	0.00	0.00	0.00
2,900.0	17.90	139.30	2,817.5	3,779.52	-432.6	372.1	570.6	0.00	0.00	0.00
3,000.0	17.90	139.30	2,912.6	3,684.37	-455.9	392.1	601.3	0.00	0.00	0.00
3,100.0	17.90	139.30	3,007.8	3,589.21	-479.2	412.2	632.1	0.00	0.00	0.00
3,200.0	17.90	139.30	3,102.9	3,494.05	-502.5	432.2	662.8	0.00	0.00	0.00
3,300.0	17.90	139.30	3,198.1	3,398.89	-525.8	452.3	693.6	0.00	0.00	0.00
3,400.0	17.90	139.30	3,293.3	3,303.74	-549.1	472.3	724.3	0.00	0.00	0.00
3,500.0	17.90	139.30	3,388.4	3,208.58	-572.4	492.4	755.0	0.00	0.00	0.00
3,600.0	17.90	139.30	3,483.6	3,113.42	-595.7	512.4	785.8	0.00	0.00	0.00
3,700.0	17.90	139.30	3,578.7	3,018.26	-619.0	532.5	816.5	0.00	0.00	0.00
3,800.0	17.90	139.30	3,673.9	2,923.10	-642.3	552.5	847.3	0.00	0.00	0.00
3,900.0	17.90	139.30	3,769.1	2,827.95	-665.6	572.5	878.0	0.00	0.00	0.00
4,000.0	17.90	139.30	3,864.2	2,732.79	-688.9	592.6	908.7	0.00	0.00	0.00
4,100.0	17.90	139.30	3,959.4	2,637.63	-712.3	612.6	939.5	0.00	0.00	0.00
4,200.0	17.90	139.30	4,054.5	2,542.47	-735.6	632.7	970.2	0.00	0.00	0.00
4,300.0	17.90	139.30	4,149.7	2,447.32	-758.9	652.7	1,001.0	0.00	0.00	0.00
4,400.0	17.90	139.30	4,244.8	2,352.16	-782.2	672.8	1,031.7	0.00	0.00	0.00
4,500.0	17.90	139.30	4,340.0	2,257.00	-805.5	692.8	1,062.4	0.00	0.00	0.00
A-4-G SD										
4,533.6	17.90	139.30	4,372.0	2,225.00	-813.3	699.6	1,072.8	0.00	0.00	0.00
END OF TANGENT										
4,587.5	17.90	139.30	4,423.3	2,173.69	-825.9	710.4	1,089.4	0.00	0.00	0.00
4,600.0	17.72	139.30	4,435.2	2,161.84	-828.8	712.9	1,093.2	1.50	-1.50	0.00

Planning Report

Database:	EDM_5000_1_7	Local Co-ordinate Reference:	Well JACKS DRAW UNIT # 20
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 # 20	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #4		

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	16.22	139.30	4,530.8	2,066.19	-850.9	731.9	1,122.3	1.50	-1.50	0.00
4,800.0	14.72	139.30	4,627.2	1,969.82	-871.1	749.3	1,149.0	1.50	-1.50	0.00
(BIG WATER SD)										
4,842.1	14.08	139.30	4,668.0	1,929.00	-879.1	756.1	1,159.5	1.50	-1.50	0.00
4,900.0	13.22	139.30	4,724.2	1,872.78	-889.4	765.0	1,173.2	1.50	-1.50	0.00
5,000.0	11.72	139.30	4,821.9	1,775.14	-905.8	779.1	1,194.7	1.50	-1.50	0.00
5,100.0	10.22	139.30	4,920.0	1,676.97	-920.2	791.5	1,213.8	1.50	-1.50	0.00
A-4-H SD										
5,125.4	9.84	139.30	4,945.0	1,652.00	-923.5	794.4	1,218.2	1.50	-1.50	0.00
END OF DROP TO 9" INC - 10R WITHIN TGT										
5,181.1	9.00	139.30	5,000.0	1,597.00	-930.5	800.3	1,227.3	1.50	-1.50	0.00
5,200.0	8.91	139.30	5,018.7	1,578.33	-932.7	802.2	1,230.2	0.50	-0.50	0.00
5,300.0	8.41	139.30	5,117.5	1,479.47	-944.1	812.1	1,245.3	0.50	-0.50	0.00
FORT UNION FORMATION										
5,327.8	8.27	139.30	5,145.0	1,452.00	-947.1	814.7	1,249.3	0.50	-0.50	0.00
5,400.0	7.91	139.30	5,216.5	1,380.49	-954.8	821.3	1,259.5	0.50	-0.50	0.00
5,500.0	7.41	139.30	5,315.6	1,281.38	-964.9	830.0	1,272.8	0.50	-0.50	0.00
5,600.0	6.91	139.30	5,414.8	1,182.16	-974.4	838.1	1,285.3	0.50	-0.50	0.00
5,700.0	6.41	139.30	5,514.2	1,082.83	-983.2	845.7	1,296.8	0.50	-0.50	0.00
5,800.0	5.91	139.30	5,613.6	983.41	-991.3	852.7	1,307.6	0.50	-0.50	0.00
5,900.0	5.41	139.30	5,713.1	883.89	-998.8	859.1	1,317.4	0.50	-0.50	0.00
6,000.0	4.91	139.30	5,812.7	784.30	-1,005.6	864.9	1,326.4	0.50	-0.50	0.00
6,100.0	4.41	139.30	5,912.4	684.63	-1,011.7	870.2	1,334.5	0.50	-0.50	0.00
L.F.U. ALLEN 8A										
6,175.8	4.03	139.30	5,988.0	609.00	-1,016.0	873.9	1,340.1	0.50	-0.50	0.00
6,200.0	3.91	139.30	6,012.1	584.89	-1,017.2	875.0	1,341.8	0.50	-0.50	0.00
L.F.U. ALLEN 8B										
6,226.0	3.78	139.30	6,038.0	559.00	-1,018.6	876.1	1,343.5	0.50	-0.50	0.00
L.F.U. ALLEN 8C										
6,271.0	3.55	139.30	6,083.0	514.00	-1,020.7	878.0	1,346.4	0.50	-0.50	0.00
6,300.0	3.41	139.30	6,111.9	485.10	-1,022.1	879.1	1,348.1	0.50	-0.50	0.00
L.F.U. ALLEN 8D										
6,319.1	3.31	139.30	6,131.0	466.00	-1,022.9	879.9	1,349.3	0.50	-0.50	0.00
L.F.U. ALLEN 8E										
6,357.2	3.12	139.30	6,169.0	428.00	-1,024.5	881.2	1,351.4	0.50	-0.50	0.00
6,400.0	2.91	139.30	6,211.8	385.25	-1,026.2	882.7	1,353.6	0.50	-0.50	0.00
L.F.U. ALLEN 8E1										
6,428.3	2.76	139.30	6,240.0	357.00	-1,027.3	883.6	1,355.0	0.50	-0.50	0.00
L.F.U. ALLEN 8F										
6,487.3	2.47	139.30	6,299.0	298.00	-1,029.3	885.4	1,357.7	0.50	-0.50	0.00
6,500.0	2.41	139.30	6,311.6	285.36	-1,029.8	885.7	1,358.3	0.50	-0.50	0.00
L.F.U. ALLEN 8G										
6,527.4	2.27	139.30	6,339.0	258.00	-1,030.6	886.5	1,359.4	0.50	-0.50	0.00
L.F.U. ALLEN 8H										
6,576.4	2.02	139.30	6,388.0	209.00	-1,032.0	887.7	1,361.2	0.50	-0.50	0.00
6,600.0	1.91	139.30	6,411.6	185.43	-1,032.6	888.2	1,362.0	0.50	-0.50	0.00
L.F.U. ALLEN 8I										
6,649.5	1.66	139.30	6,461.0	136.00	-1,033.8	889.2	1,363.6	0.50	-0.50	0.00
6,700.0	1.41	139.30	6,511.5	85.47	-1,034.8	890.1	1,364.9	0.50	-0.50	0.00
L.F.U. ALLEN 9A										
6,739.5	1.21	139.30	6,551.0	46.00	-1,035.5	890.7	1,365.8	0.50	-0.50	0.00
L.F.U. ALLEN 9B										

Planning Report

Database:	EDM_5000_1_7	Local Co-ordinate Reference:	Well JACKS DRAW UNIT # 20
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 # 20	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #4		

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)
6,777.5	1.02	139.30	6,589.0	8.00	-1,036.0	891.1	1,366.6	0.50	-0.50	0.00
6,800.0	0.91	139.30	6,611.5	-14.51	-1,036.3	891.4	1,366.9	0.50	-0.50	0.00
L.F.U. ALLEN 9C										
6,877.5	0.52	139.30	6,689.0	-92.00	-1,037.1	892.0	1,367.9	0.50	-0.50	0.00
6,900.0	0.41	139.30	6,711.5	-114.50	-1,037.2	892.1	1,368.1	0.50	-0.50	0.00
END OF DROP TO VERTICAL										
6,981.1	0.00	0.00	6,792.6	-195.61	-1,037.4	892.3	1,368.4	0.50	-0.50	0.00
7,000.0	0.00	0.00	6,811.5	-214.50	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
L.F.U. ALLEN 11										
7,001.5	0.00	0.00	6,813.0	-216.00	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
7,100.0	0.00	0.00	6,911.5	-314.50	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
L.F.U. ALLEN 11A										
7,193.5	0.00	0.00	7,005.0	-408.00	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
7,200.0	0.00	0.00	7,011.5	-414.50	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
7,300.0	0.00	0.00	7,111.5	-514.50	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
L.F.U. ALLEN 11B										
7,369.5	0.00	0.00	7,181.0	-584.00	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
7,400.0	0.00	0.00	7,211.5	-614.50	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
L.F.U. ALLEN 11C										
7,451.5	0.00	0.00	7,263.0	-666.00	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
7,500.0	0.00	0.00	7,311.5	-714.50	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
7,600.0	0.00	0.00	7,411.5	-814.50	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
L.F.U. 4600										
7,681.5	0.00	0.00	7,493.0	-896.00	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
7,700.0	0.00	0.00	7,511.5	-914.50	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
7,800.0	0.00	0.00	7,611.5	-1,014.50	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
L.F.U. ALLEN 10A										
7,888.5	0.00	0.00	7,700.0	-1,103.00	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
7,900.0	0.00	0.00	7,711.5	-1,114.50	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
L.F.U. ALLEN 10B										
7,995.5	0.00	0.00	7,807.0	-1,210.00	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
8,000.0	0.00	0.00	7,811.5	-1,214.50	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
L.F.U. ALLEN 10C										
8,054.5	0.00	0.00	7,866.0	-1,269.00	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
8,100.0	0.00	0.00	7,911.5	-1,314.50	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
L.F.U. ALLEN 6										
8,116.5	0.00	0.00	7,928.0	-1,331.00	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
L.F.U. ALLEN 6A										
8,181.5	0.00	0.00	7,993.0	-1,396.00	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
8,200.0	0.00	0.00	8,011.5	-1,414.50	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
L.F.U. ALLEN 6B										
8,247.5	0.00	0.00	8,059.0	-1,462.00	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
8,300.0	0.00	0.00	8,111.5	-1,514.50	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
L.F.U. ALLEN 6C										
8,301.5	0.00	0.00	8,113.0	-1,516.00	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
L.F.U. ALLEN 6D										
8,361.5	0.00	0.00	8,173.0	-1,576.00	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
8,400.0	0.00	0.00	8,211.5	-1,614.50	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
L.F.U. ALLEN 6E										
8,409.5	0.00	0.00	8,221.0	-1,624.00	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
8,500.0	0.00	0.00	8,311.5	-1,714.50	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
8,600.0	0.00	0.00	8,411.5	-1,814.50	-1,037.4	892.3	1,368.4	0.00	0.00	0.00

Planning Report

Database:	EDM_5000_1_7	Local Co-ordinate Reference:	Well JACKS DRAW UNIT # 20
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 # 20	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #4		

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 6F										
8,605.5	0.00	0.00	8,417.0	-1,820.00	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
L.F.U. ALLEN 6G										
8,654.5	0.00	0.00	8,466.0	-1,869.00	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
8,700.0	0.00	0.00	8,511.5	-1,914.50	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
L.F.U. ALLEN 6H										
8,736.5	0.00	0.00	8,548.0	-1,951.00	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
8,800.0	0.00	0.00	8,611.5	-2,014.50	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
L.F.U. ALLEN 6I										
8,815.5	0.00	0.00	8,627.0	-2,030.00	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
L.F.U. ALLEN 6J										
8,856.5	0.00	0.00	8,668.0	-2,071.00	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
L.F.U. ALLEN 6K										
8,878.5	0.00	0.00	8,690.0	-2,093.00	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
8,900.0	0.00	0.00	8,711.5	-2,114.50	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
9,000.0	0.00	0.00	8,811.5	-2,214.50	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
LNCE										
9,085.5	0.00	0.00	8,897.0	-2,300.00	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
9,100.0	0.00	0.00	8,911.5	-2,314.50	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
9,200.0	0.00	0.00	9,011.5	-2,414.50	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
9,300.0	0.00	0.00	9,111.5	-2,514.50	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
9,400.0	0.00	0.00	9,211.5	-2,614.50	-1,037.4	892.3	1,368.4	0.00	0.00	0.00
9,435.5	0.00	0.00	9,247.0	-2,650.00	-1,037.4	892.3	1,368.4	0.00	0.00	0.00

Casing Points

MD (usft)	TVD (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,515.5	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 # 20
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 # 20	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #4		

Formations						
MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,533.6	4,372.0	A-4-G SD				
4,842.1	4,668.0	(BIG WATER SD)				
5,125.4	4,945.0	A-4-H SD				
5,327.8	5,145.0	FORT UNION FORMATION				
6,175.8	5,988.0	L.F.U. ALLEN 8A				
6,226.0	6,038.0	L.F.U. ALLEN 8B				
6,271.0	6,083.0	L.F.U. ALLEN 8C				
6,319.1	6,131.0	L.F.U. ALLEN 8D				
6,357.2	6,169.0	L.F.U. ALLEN 8E				
6,428.3	6,240.0	L.F.U. ALLEN 8E1				
6,487.3	6,299.0	L.F.U. ALLEN 8F				
6,527.4	6,339.0	L.F.U. ALLEN 8G				
6,576.4	6,388.0	L.F.U. ALLEN 8H				
6,649.5	6,461.0	L.F.U. ALLEN 8I				
6,739.5	6,551.0	L.F.U. ALLEN 9A				
6,777.5	6,589.0	L.F.U. ALLEN 9B				
6,877.5	6,689.0	L.F.U. ALLEN 9C				
7,001.5	6,813.0	L.F.U. ALLEN 11				
7,193.5	7,005.0	L.F.U. ALLEN 11A				
7,369.5	7,181.0	L.F.U. ALLEN 11B				
7,451.5	7,263.0	L.F.U. ALLEN 11C				
7,681.5	7,493.0	L.F.U. 4600				
7,888.5	7,700.0	L.F.U. ALLEN 10A				
7,995.5	7,807.0	L.F.U. ALLEN 10B				
8,054.5	7,866.0	L.F.U. ALLEN 10C				
8,116.5	7,928.0	L.F.U. ALLEN 6				
8,181.5	7,993.0	L.F.U. ALLEN 6A				
8,247.5	8,059.0	L.F.U. ALLEN 6B				
8,301.5	8,113.0	L.F.U. ALLEN 6C				
8,361.5	8,173.0	L.F.U. ALLEN 6D				
8,409.5	8,221.0	L.F.U. ALLEN 6E				
8,605.5	8,417.0	L.F.U. ALLEN 6F				
8,654.5	8,466.0	L.F.U. ALLEN 6G				
8,736.5	8,548.0	L.F.U. ALLEN 6H				
8,815.5	8,627.0	L.F.U. ALLEN 6I				
8,856.5	8,668.0	L.F.U. ALLEN 6J				
8,878.5	8,690.0	L.F.U. ALLEN 6K				
9,085.5	8,897.0	LNCE				

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Plan Annotations				
MD (usft)	TVD (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
600.0	600.0	0.0	0.0	KOP (2°/100ft BUR)
1,495.2	1,480.7	-105.2	90.5	END OF BUILD TO 17.9° INC
4,587.5	4,423.3	-825.9	710.4	END OF TANGENT
5,181.1	5,000.0	-930.5	800.3	END OF DROP TO 9° INC - 10ft WITHIN TGT
6,981.1	6,792.6	-1,037.4	892.3	END OF DROP TO VERTICAL
9,435.5	9,247.0	-1,037.4	892.3	PROPOSED TD - JDU #20 (P4)