

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER Morgan State 921-36B4CS				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT NATURAL BUTTES				
4. TYPE OF WELL Gas Well <input type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>						5. UNIT or COMMUNITIZATION AGREEMENT NAME				
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.						7. OPERATOR PHONE 720 929-6515				
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217						9. OPERATOR E-MAIL julie.jacobson@anadarko.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) ML 22265			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN		
LOCATION AT SURFACE		649 FNL 2016 FWL		NENW	36	9.0 S	21.0 E	S		
Top of Uppermost Producing Zone		1145 FNL 1800 FEL		NWNE	36	9.0 S	21.0 E	S		
At Total Depth		1145 FNL 1800 FEL		NWNE	36	9.0 S	21.0 E	S		
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 1145			23. NUMBER OF ACRES IN DRILLING UNIT 639				
27. ELEVATION - GROUND LEVEL 4989			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 644			26. PROPOSED DEPTH MD: 10806 TVD: 10555				
28. BOND NUMBER 22013542			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-8496							
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	12.25	8.625	0 - 2600	28.0	J-55 LT&C	0.2	Type V	180	1.15	15.8
							Class G	270	1.15	15.8
Prod	7.875	4.5	0 - 10806	11.6	HCP-110 LT&C	13.0	Premium Lite High Strength	320	3.38	12.0
							50/50 Poz	1580	1.31	14.3
ATTACHMENTS										
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Danielle Piernot				TITLE Regulatory Analyst			PHONE 720 929-6156			
SIGNATURE				DATE 12/19/2011			EMAIL danielle.piernot@anadarko.com			
API NUMBER ASSIGNED 43047522720000				APPROVAL  Permit Manager						

Kerr-McGee Oil & Gas Onshore. L.P.**MORGAN STATE 921-36B4CS**

Surface: 649 FNL / 2016 FWL NENW
 BHL: 1145 FNL / 1800 FEL NWNE

Section 36 T9S R21E

Unitah County, Utah
 Mineral Lease: ML-22265

ONSHORE ORDER NO. 1**DRILLING PROGRAM**

1. & 2.a **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1,333'	
Birds Nest	1,657'	Water
Mahogany	2,149'	Water
Wasatch	4,605'	Gas
Mesaverde	7,282'	Gas
Sego	9,437'	Gas
Castlegate	9,519'	Gas
MN5	9,955'	Gas
TVD =	10,555'	
TD =	10,806'	

- 2.C Kerr McGee Oil & Gas Onshore LP (Kerr McGee) will either drill to the the Blackhawk formation, which is part of the Mesaverde formation, or the Wasatch/Mesaverde formation. If Kerr McGee drills to the Blackhawk formation (part of the Mesaverde formation), please refer to MN5 as the bottom formation. The attached Blackhawk Drilling Program includes Total Vertical Depth, Total Depth, and appropriate casing and cement programs for the deeper formation.

If Kerr McGee drills to the Wasatch/Mesaverde formation please refer to Segoe as the bottom formation. The attached Wasatch/Mesaverde Drilling Program includes Total Vertical Depth, Total Depth, and appropriate casing and cement programs for the depths the Wasatch/Mesaverde formations are found.

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

4. Proposed Casing & Cementing Program:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

5. Drilling Fluids Program:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

6. Evaluation Program:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

7. Abnormal Conditions:**7.a Blackhawk (Part of Mesaverde Formation) Target Formation**

Maximum anticipated bottom hole pressure calculated at 10555' TVD, approximately equals
6,966 psi (0.66 psi/ft = actual bottomhole gradient)

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 4,692 psi (bottom hole pressure
minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-
(0.22 psi/ft-partial evac gradient x TVD of next csg point))

7.b Wasach/Mesaverde Target Formation

Maximum anticipated bottom hole pressure calculated at 9437' TVD, approximately equals
6,040 psi (0.64 psi/ft = actual bottomhole gradient)

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,950 psi (bottom hole pressure
minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-
(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program
Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements
associated with air drilling outlined in Onshore Order 2

- Blowout Prevention Equipment (BOPE) requirements;
- Mud program requirements; and
- Special drilling operation (surface equipment placement) requirements associated
with air drilling.

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12 1/4 inch hole for the first 200 feet, then will drill a 11 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Variance for FIT Requirements

KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

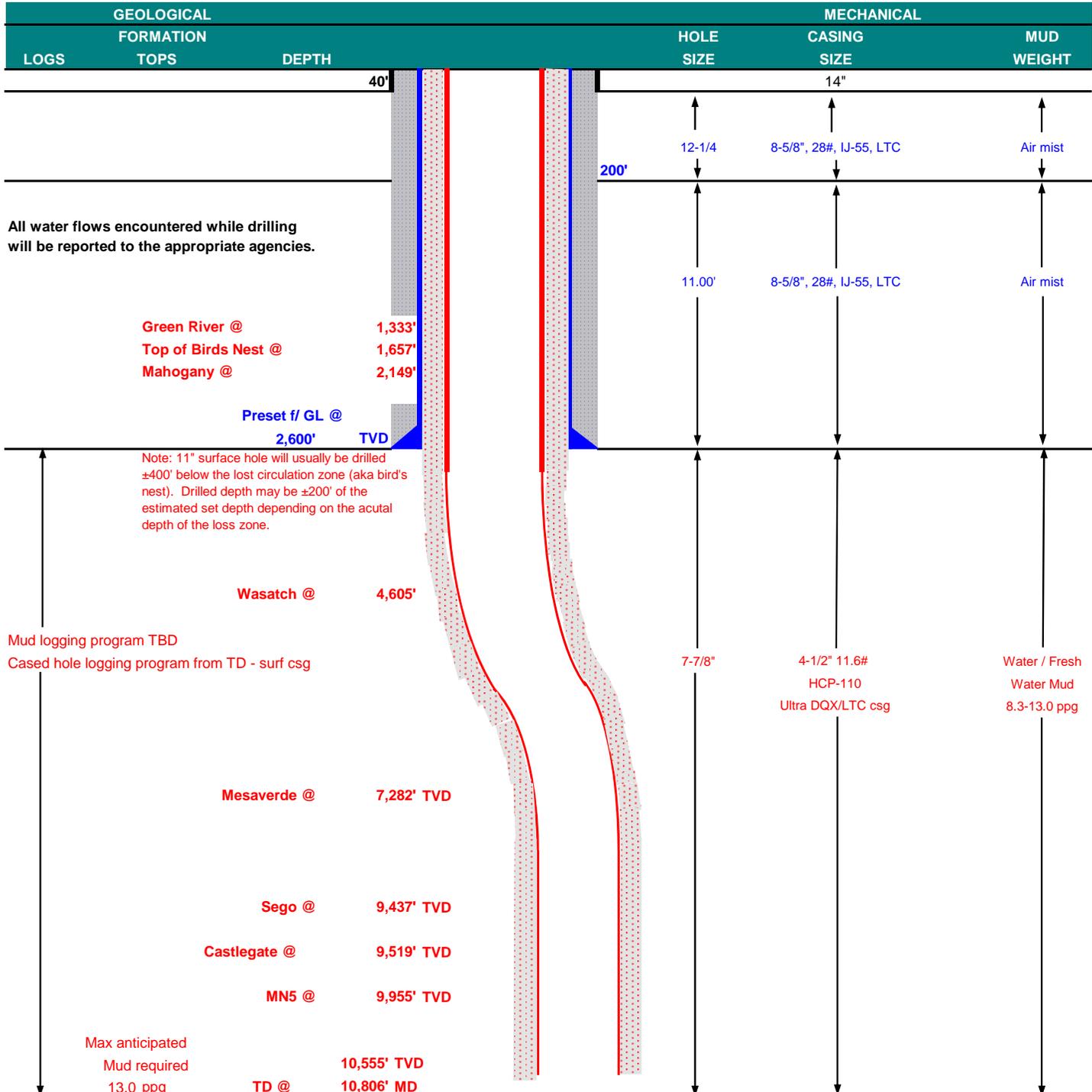
10. **Other Information:**

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program



KERR-McGEE OIL & GAS ONSHORE LP **BLACKHAWK DRILLING PROGRAM**

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	December 19, 2011	
WELL NAME	MORGAN STATE 921-36B4CS		TD	10,555' TVD	10,806' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah
SURFACE LOCATION	NENW	649 FNL	2016 FWL	Sec 36 T 9S R 21E	FINISHED ELEVATION 4,988'
	Latitude:	39.997992	Longitude:	-109.501601	NAD 27
BTM HOLE LOCATION	NWNE	1145 FNL	1800 FEL	Sec 36 T 9S R 21E	
	Latitude:	39.996629	Longitude:	-109.496389	NAD 27
OBJECTIVE ZONE(S)	BLACKHAWK				
ADDITIONAL INFO	Regulatory Agencies: UDOGM (Minerals), UDOGM (Surface), UDOGM Tri-County Health Dept.				





KERR-McGEE OIL & GAS ONSHORE LP
BLACKHAWK DRILLING PROGRAM

CASING PROGRAM

							DESIGN FACTORS			
	SIZE	INTERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	LTC	DQX
									TENSION	
CONDUCTOR	14"	0-40'					3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0	to 2,600	28.00	IJ-55	LTC	2.07	1.55	5.46	N/A
PRODUCTION	4-1/2"	0	to 5,000	11.60	HCP-110	DQX	1.19	1.21	279,000	367,174
	4-1/2"	5,000	to 10,806'	11.60	HCP-110	LTC	1.19	1.21	5.17	

Surface Casing:

(Burst Assumptions: TD = 13.0 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 9000 psi) 0.66 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80	1.15
Option 1	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80	1.15
NOTE: If well will circulate water to surface, option 2 will be utilized							
SURFACE	LEAD	2,100'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	190	35%	11.00	3.82
Option 2	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.80	1.15
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	4,096'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	320	35%	12.00	3.38
	TAIL	6,710'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,580	35%	14.30	1.31

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

Nick Spence / Danny Showers / Chad Loesel

DATE:

DRILLING SUPERINTENDENT:

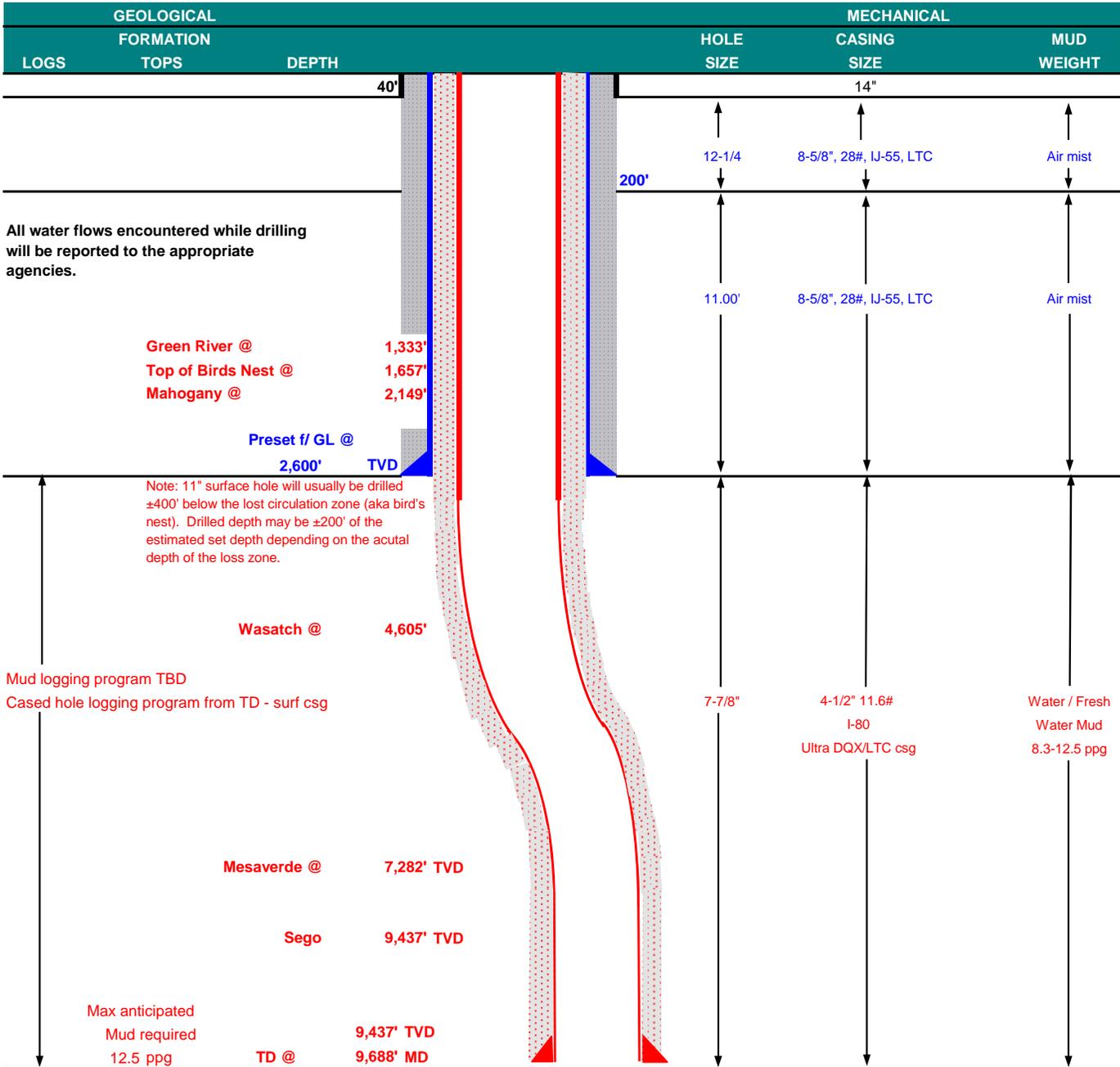
Kenny Gathings / Lovel Young

DATE:



KERR-McGEE OIL & GAS ONSHORE LP WASATCH/MESAVERDE DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	December 19, 2011	
WELL NAME	MORGAN STATE 921-36B4CS		TD	9,437'	TVD 9,688' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah
SURFACE LOCATION	NENW	649 FNL	2016 FWL	Sec 36 T 9S R 21E	FINISHED ELEVATION 4,988'
	Latitude: 39.997992		Longitude: -109.501601		NAD 27
BTM HOLE LOCATION	NWNE	1145 FNL	1800 FEL	Sec 36 T 9S R 21E	
	Latitude: 39.996629		Longitude: -109.496389		NAD 27
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: UDOGM (Minerals), UDOGM (Surface), UDOGM Tri-County Health Dept.				





KERR-McGEE OIL & GAS ONSHORE LP

WASATCH/MESAVERDE DRILLING PROGRAM

CASING PROGRAM

							DESIGN FACTORS			
							LTC		DQX	
	SIZE	INTERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION	
CONDUCTOR	14"	0-40'					3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0	to 2,600	28.00	IJ-55	LTC	2.07	1.55	5.46	N/A
PRODUCTION	4-1/2"	0	to 5,000	11.60	I-80	DQX	7,780	6,350		267,035
	4-1/2"						1.11	1.04		2.94
	4-1/2"	5,000	to 9,688'	11.60	I-80	LTC	7,780	6,350	223,000	
	4-1/2"						1.11	1.04	5.07	

Surface Casing:

(Burst Assumptions: TD = 12.5 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.64 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT		YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80		1.15
Option 1	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80		1.15
NOTE: If well will circulate water to surface, option 2 will be utilized								
SURFACE	LEAD	2,100'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	190	35%	11.00		3.82
Option 2	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.80		1.15
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80		1.15
PRODUCTION	LEAD	4,098'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	320	35%	12.00		3.38
	TAIL	5,590'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,320	35%	14.30		1.31

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

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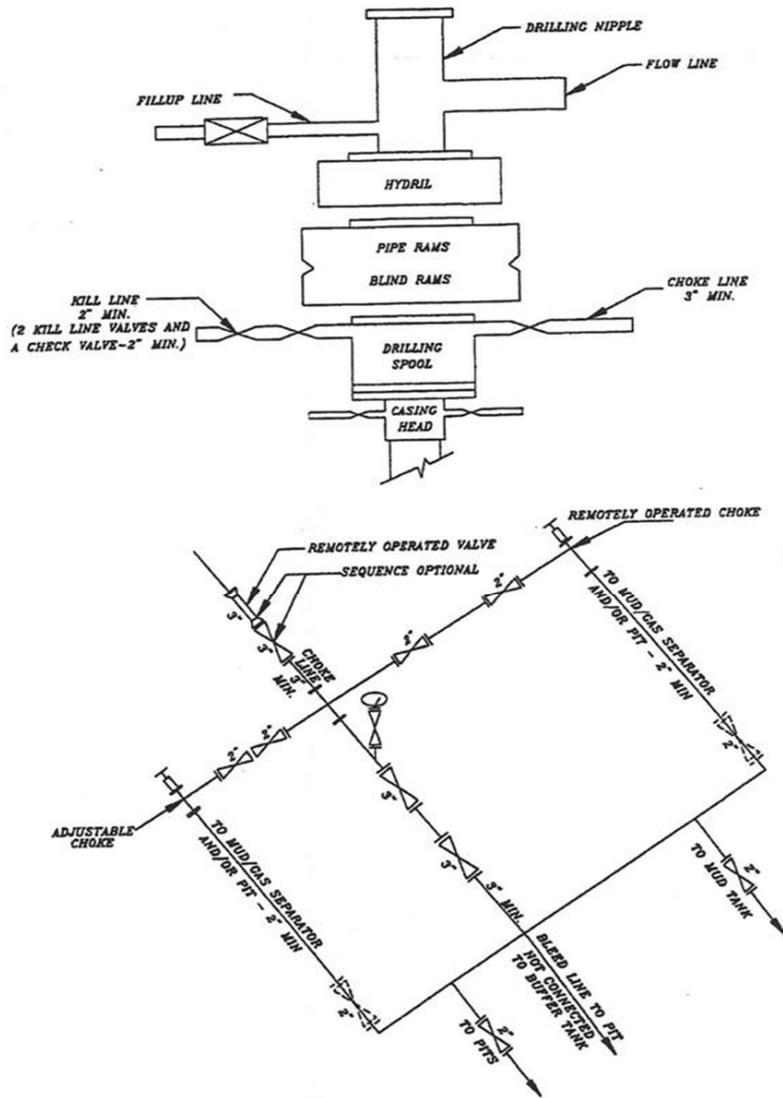
DRILLING ENGINEER: _____
Nick Spence / Danny Showers / Chad Loesel

DATE: _____

DRILLING SUPERINTENDENT: _____
Kenny Gathings / Lovel Young

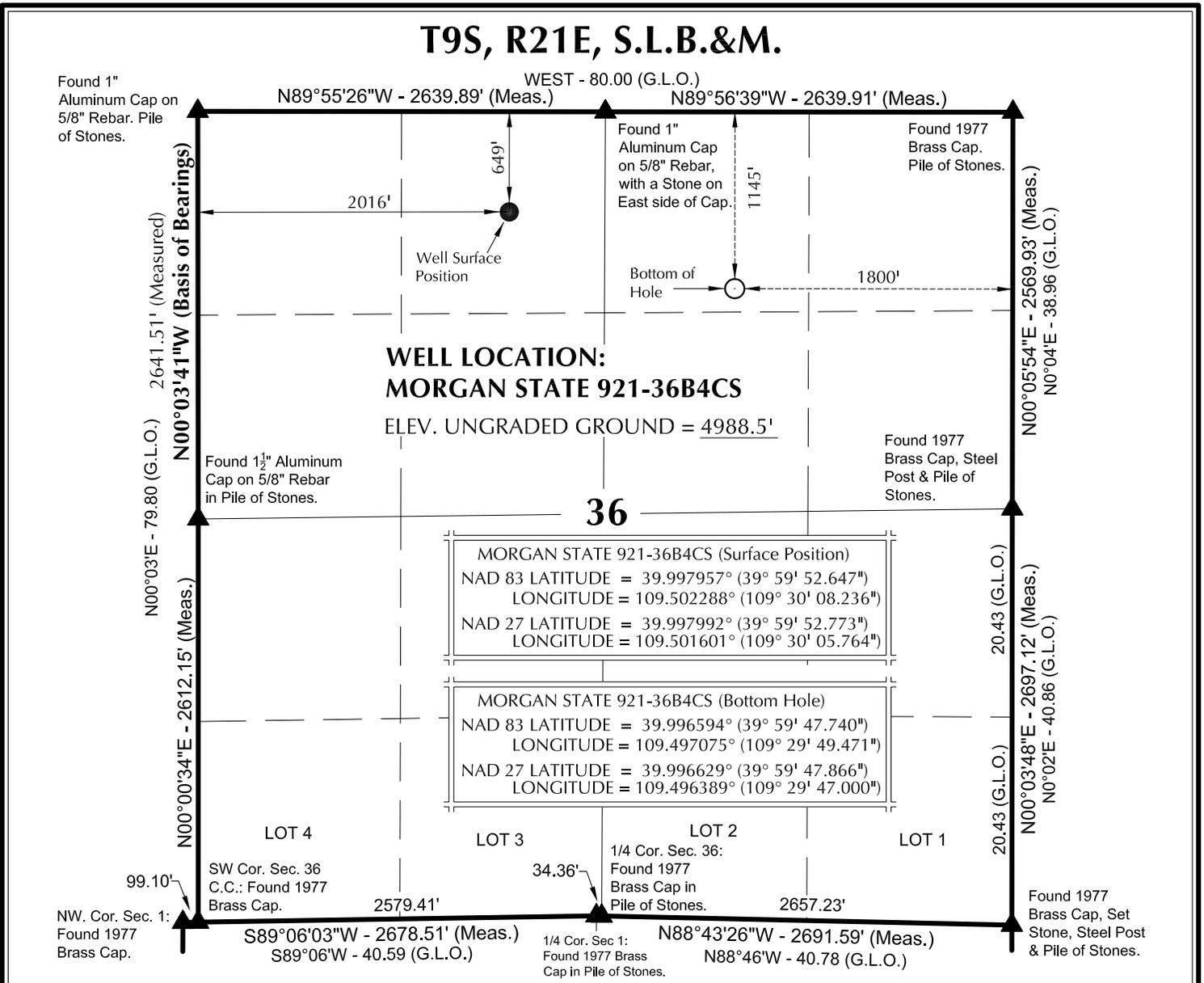
DATE: _____

EXHIBIT A
MORGAN STATE 921-36B4CS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

T9S, R21E, S.L.B.&M.

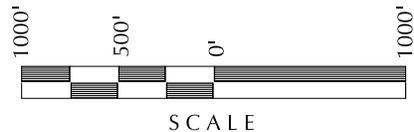


**WELL LOCATION:
MORGAN STATE 921-36B4CS**
ELEV. UNGRADED GROUND = 4988.5'

<p>MORGAN STATE 921-36B4CS (Surface Position)</p> <p>NAD 83 LATITUDE = 39.997957° (39° 59' 52.647")</p> <p>LONGITUDE = 109.502288° (109° 30' 08.236")</p> <p>NAD 27 LATITUDE = 39.997992° (39° 59' 52.773")</p> <p>LONGITUDE = 109.501601° (109° 30' 05.764")</p>
<p>MORGAN STATE 921-36B4CS (Bottom Hole)</p> <p>NAD 83 LATITUDE = 39.996594° (39° 59' 47.740")</p> <p>LONGITUDE = 109.497075° (109° 29' 49.471")</p> <p>NAD 27 LATITUDE = 39.996629° (39° 59' 47.866")</p> <p>LONGITUDE = 109.496389° (109° 29' 47.000")</p>

NOTES:

- ▲ = Section Corners Located
- 1. Well footages are measured at right angles to the Section Lines.
- 2. G.L.O. distances are shown in feet or chains. 1 chain = 66 feet.
- 3. The Bottom of hole bears S71°11'59"E 1542.92' from the Surface Position.
- 4. Bearings are based on Global Positioning Satellite observations.
- 5. Basis of elevation is Tri-Sta "Two Water" located in the NW ¼ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.



SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

11-11-11
 JOHN R. LAUGH
 PROFESSIONAL LAND SURVEYOR
 REGISTRATION No. 6028691
 STATE OF UTAH

Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street - Denver, Colorado 80202

WELL PAD: MORGAN STATE 921-36C

**MORGAN STATE 921-36B4CS
 WELL PLAT**
 1145' FNL, 1800' FEL (Bottom Hole)
 NW ¼ NE ¼ OF SECTION 36, T9S, R21E,
 S.L.B.&M., UTAH COUNTY, UTAH.

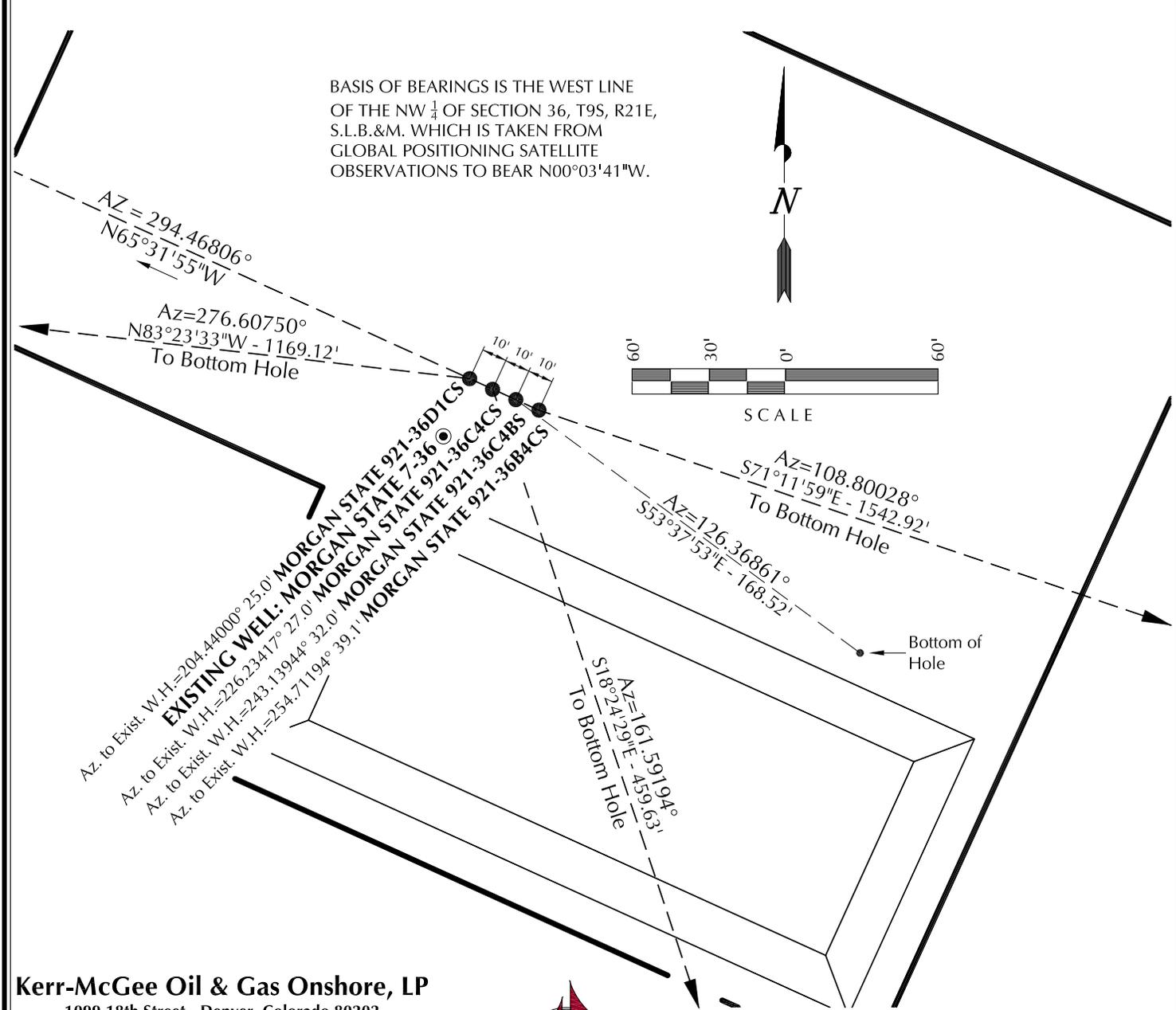
609
CONSULTING, LLC
 2155 North Main Street
 Sheridan WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

TIMBERLINE (435) 789-1365
 ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 10-13-11	SURVEYED BY: J.W.	SHEET NO: 1 1 OF 16
DATE DRAWN: 11-02-11	DRAWN BY: T.J.R.	
SCALE: 1" = 1000'	Date Last Revised:	

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
MORGAN STATE 921-36B4CS	39°59'52.647"	109°30'08.236"	39°59'52.773"	109°30'05.764"	649' FNL 2016' FWL	39°59'47.740"	109°29'49.471"	39°59'47.866"	109°29'47.000"	1145' FNL 1800' FEL
MORGAN STATE 921-36C4BS	39°59'52.688"	109°30'08.353"	39°59'52.814"	109°30'05.881"	645' FNL 2007' FWL	39°59'51.701"	109°30'06.609"	39°59'51.827"	109°30'04.138"	745' FNL 2143' FWL
MORGAN STATE 921-36C4CS	39°59'52.729"	109°30'08.470"	39°59'52.855"	109°30'05.998"	641' FNL 1998' FWL	39°59'48.421"	109°30'06.603"	39°59'48.547"	109°30'04.132"	1077' FNL 2143' FWL
MORGAN STATE 921-36D1CS	39°59'52.769"	109°30'08.587"	39°59'52.896"	109°30'06.115"	637' FNL 1989' FWL	39°59'54.093"	109°30'23.507"	39°59'54.219"	109°30'21.034"	504' FNL 828' FWL
MORGAN STATE 7-36	39°59'52.545"	109°30'08.720"	39°59'52.671"	109°30'06.248"	660' FNL 1979' FWL					

RELATIVE COORDINATES - From Surface Position to Bottom Hole											
WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
MORGAN STATE 921-36B4CS	-497.2'	1460.6'	MORGAN STATE 921-36C4BS	-99.9'	135.7'	MORGAN STATE 921-36C4CS	-436.1'	145.1'	MORGAN STATE 921-36D1CS	134.5'	-1161.4'



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WELL PAD - MORGAN STATE 921-36C

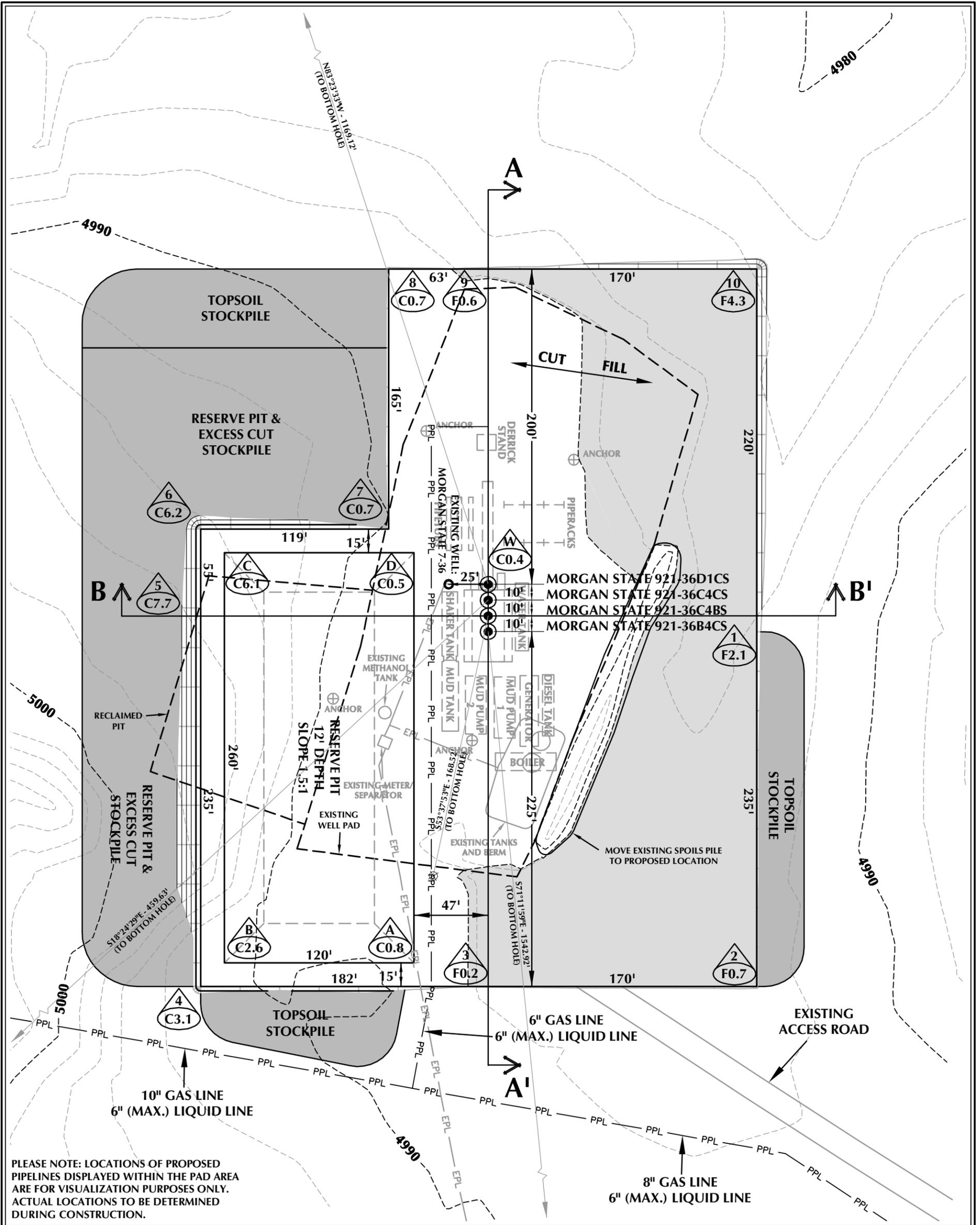
WELL PAD INTERFERENCE PLAT
WELLS - MORGAN STATE 921-36B4CS,
MORGAN STATE 921-36C4BS,
MORGAN STATE 921-36C4CS &
MORGAN STATE 921-36D1CS
LOCATED IN SECTION 36, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH.



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DATE SURVEYED: 10-13-11	SURVEYED BY: J.W.	SHEET NO: 5
DATE DRAWN: 11-02-11	DRAWN BY: T.J.R.	
SCALE: 1" = 60'		5 OF 16



PLEASE NOTE: LOCATIONS OF PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

WELL PAD - MORGAN STATE 921-36C DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 4988.5'
 FINISHED GRADE ELEVATION = 4988.1'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1
 TOTAL WELL PAD AREA = 3.40 ACRES
 TOTAL DISTURBANCE AREA = 4.77 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00

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WELL PAD - MORGAN STATE 921-36C

WELL PAD - LOCATION LAYOUT
 MORGAN STATE 921-36B4CS,
 MORGAN STATE 921-36C4CS &
 MORGAN STATE 921-36D1CS
 LOCATED IN SECTION 36, T9S, R21E,
 S.L.B.&M., UTAH COUNTY, UTAH

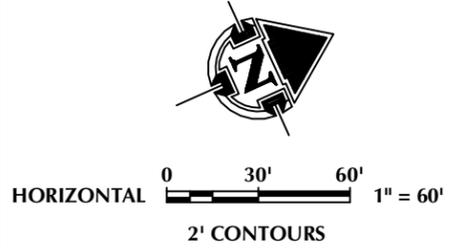


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WELL PAD QUANTITIES
 TOTAL CUT FOR WELL PAD = 5,627 C.Y.
 TOTAL FILL FOR WELL PAD = 3,941 C.Y.
 TOPSOIL @ 6" DEPTH = 1,709 C.Y.
 EXCESS MATERIAL = 1,686 C.Y.

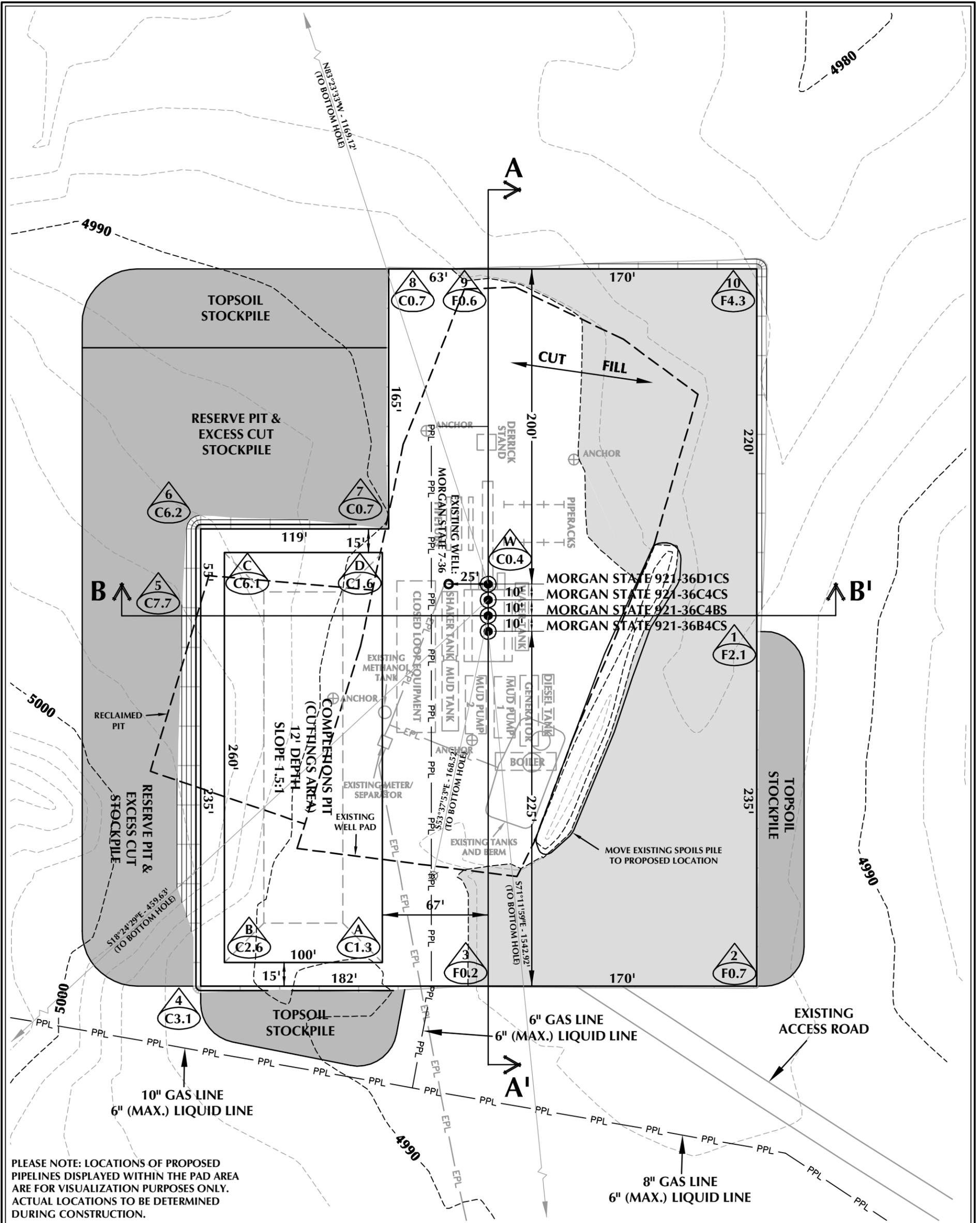
RESERVE PIT QUANTITIES
 TOTAL CUT FOR RESERVE PIT
 +/- 11,020 C.Y.
 RESERVE PIT CAPACITY (2' OF FREEBOARD)
 +/- 42,290 BARRELS

- WELL PAD LEGEND**
- EXISTING WELL LOCATION
 - PROPOSED WELL LOCATION
 - PROPOSED BOTTOM HOLE LOCATION
 - EXISTING CONTOURS (2' INTERVAL)
 - PROPOSED CONTOURS (2' INTERVAL)
 - PPL - PROPOSED PIPELINE
 - EPL - EXISTING PIPELINE



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 209 NORTH 300 WEST - VERNAL, UTAH 84078
 (435) 789-1365

SCALE: 1"=60' DATE: 11/11/11 SHEET NO:
 REVISED: **6** 6 OF 16



PLEASE NOTE: LOCATIONS OF PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

WELL PAD - MORGAN STATE 921-36C (CLOSED LOOP) DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 4988.5'
 FINISHED GRADE ELEVATION = 4988.1'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1
 TOTAL WELL PAD AREA = 3.40 ACRES
 TOTAL DISTURBANCE AREA = 4.77 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00

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WELL PAD - MORGAN STATE 921-36C
 WELL PAD - LOCATION LAYOUT
 MORGAN STATE 921-36B4CS,
 MORGAN STATE 921-36C4CS &
 MORGAN STATE 921-36D1CS
 LOCATED IN SECTION 36, T9S, R21E,
 S.L.B.&M., UTAH COUNTY, UTAH

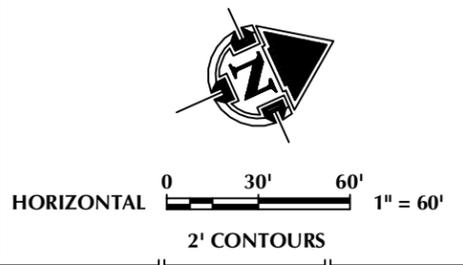


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 Sheridan, WY 82801
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WELL PAD QUANTITIES
 TOTAL CUT FOR WELL PAD = 5,627 C.Y.
 TOTAL FILL FOR WELL PAD = 3,941 C.Y.
 TOPSOIL @ 6" DEPTH = 1,709 C.Y.
 EXCESS MATERIAL = 1,686 C.Y.

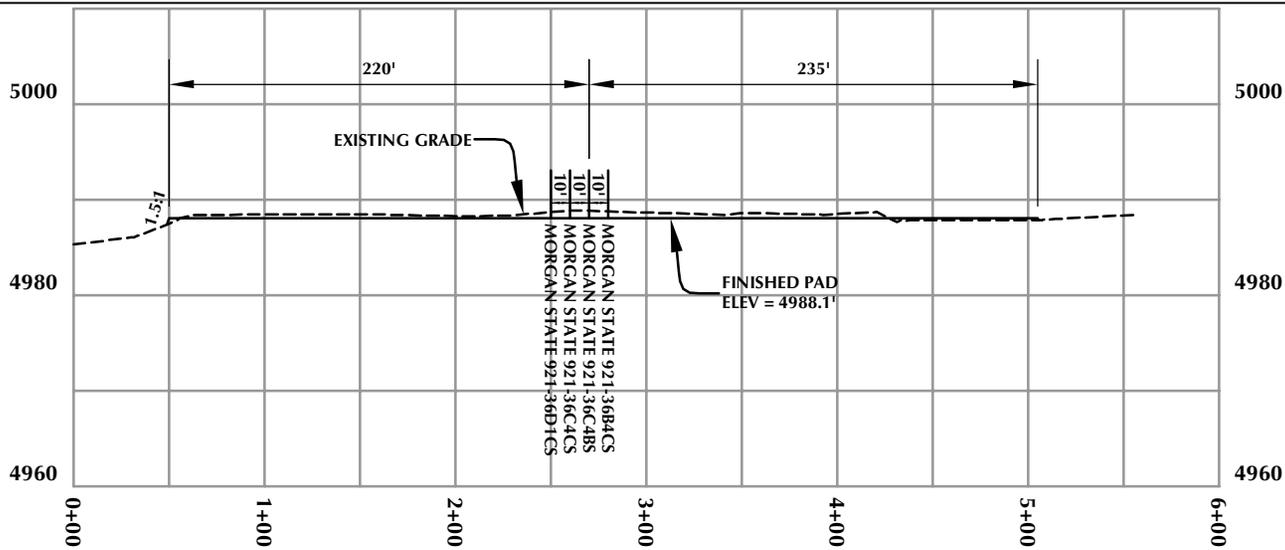
COMPLETIONS PIT QUANTITIES
 TOTAL CUT FOR COMPLETIONS PIT
 +/- 8,870 C.Y.
 COMPLETIONS PIT CAPACITY
 (2' OF FREEBOARD)
 +/- 33,770 BARRELS

- WELL PAD LEGEND**
- EXISTING WELL LOCATION
 - PROPOSED WELL LOCATION
 - PROPOSED BOTTOM HOLE LOCATION
 - EXISTING CONTOURS (2' INTERVAL)
 - PROPOSED CONTOURS (2' INTERVAL)
 - PROPOSED PIPELINE
 - EXISTING PIPELINE

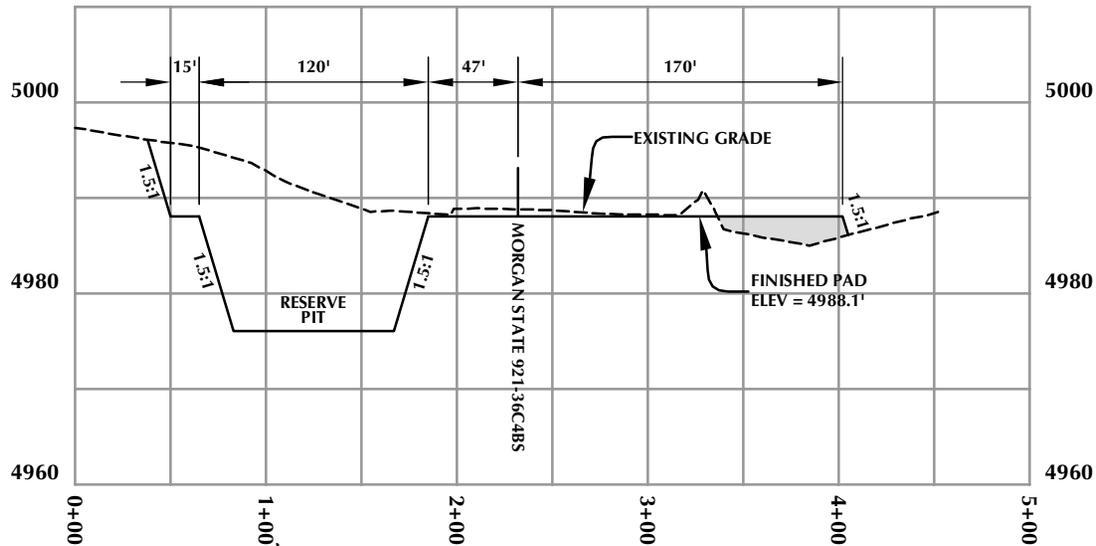


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 (435) 789-1365

SCALE: 1"=60' DATE: 11/15/11 SHEET NO:
 REVISED: **6B** 6B OF 16



CROSS SECTION A-A'



CROSS SECTION B-B'

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WELL PAD - MORGAN STATE 921-36C

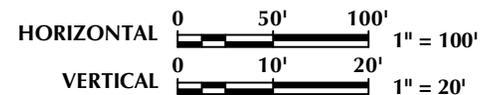
WELL PAD - CROSS SECTIONS
MORGAN STATE 921-36B4CS,
MORGAN STATE 921-36C4BS,
MORGAN STATE 921-36C4CS &
MORGAN STATE 921-36D1CS
LOCATED IN SECTION 36, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH



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Scale: 1"=100'

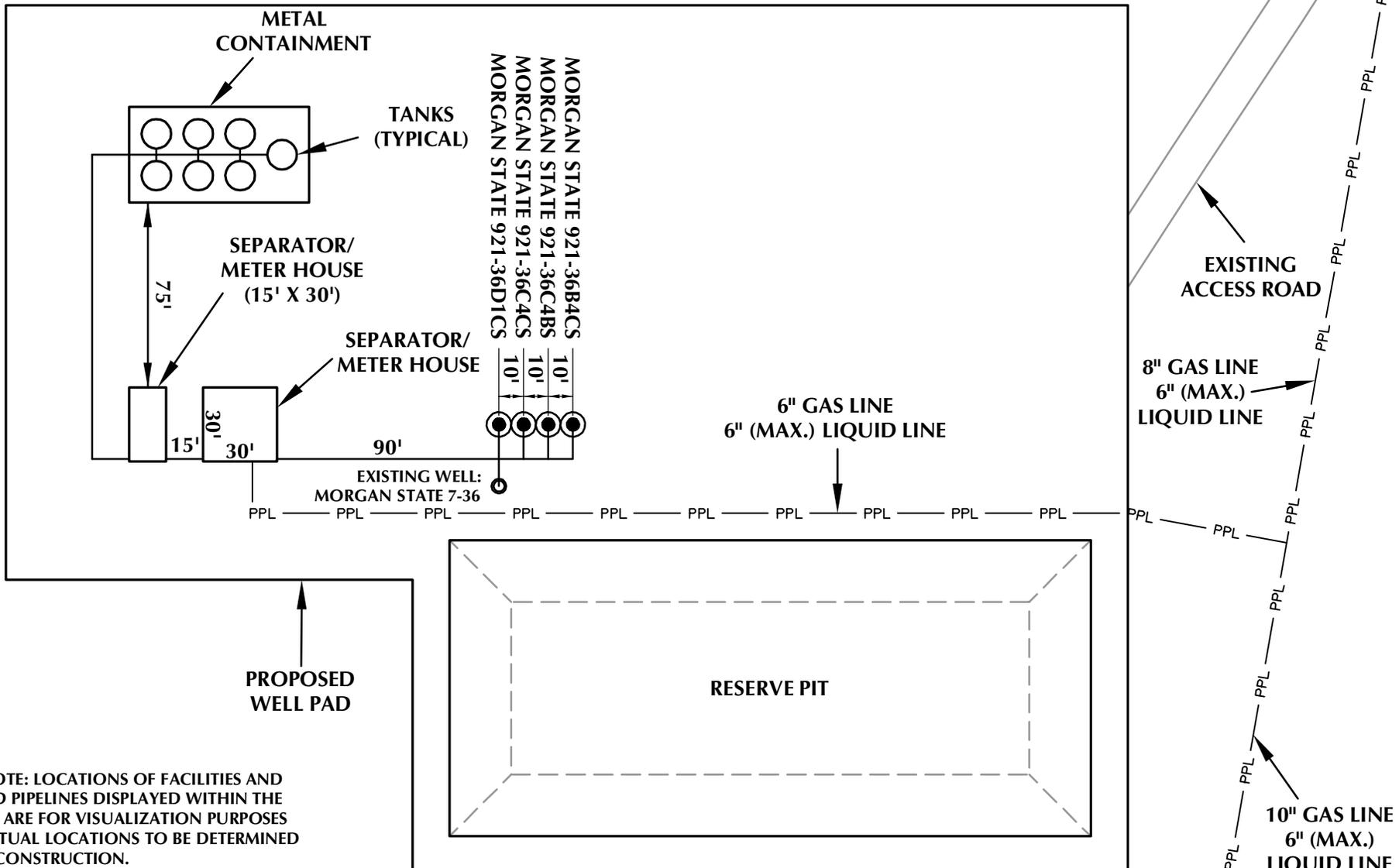
Date: 11/11/11

SHEET NO:

REVISED:

7

7 OF 16



PLEASE NOTE: LOCATIONS OF FACILITIES AND PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

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WELL PAD - MORGAN STATE 921-36C

WELL PAD - FACILITIES DIAGRAM
MORGAN STATE 921-36B4CS,
MORGAN STATE 921-36C4BS,
MORGAN STATE 921-36C4CS &
MORGAN STATE 921-36D1CS
LOCATED IN SECTION 36, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH



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WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED PIPELINE
- EXISTING PIPELINE



HORIZONTAL 1" = 60'

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209 NORTH 300 WEST - VERNAL, UTAH 84078

Scale: 1"=60' Date: 11/11/11
REVISED:

SHEET NO:
8 8 OF 16

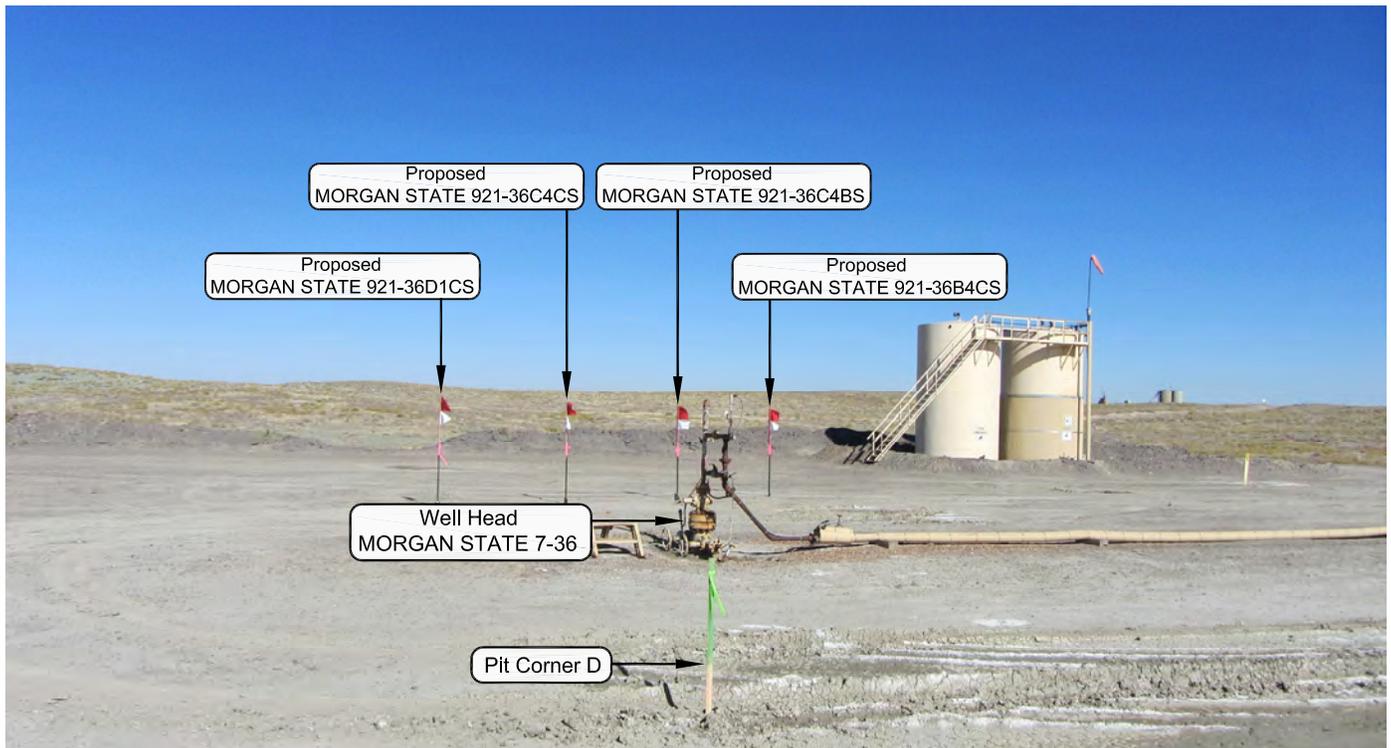


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO VIEW: FROM EXISTING ACCESS ROAD

CAMERA ANGLE: SOUTHWESTERLY

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WELL PAD - MORGAN STATE 921-36C

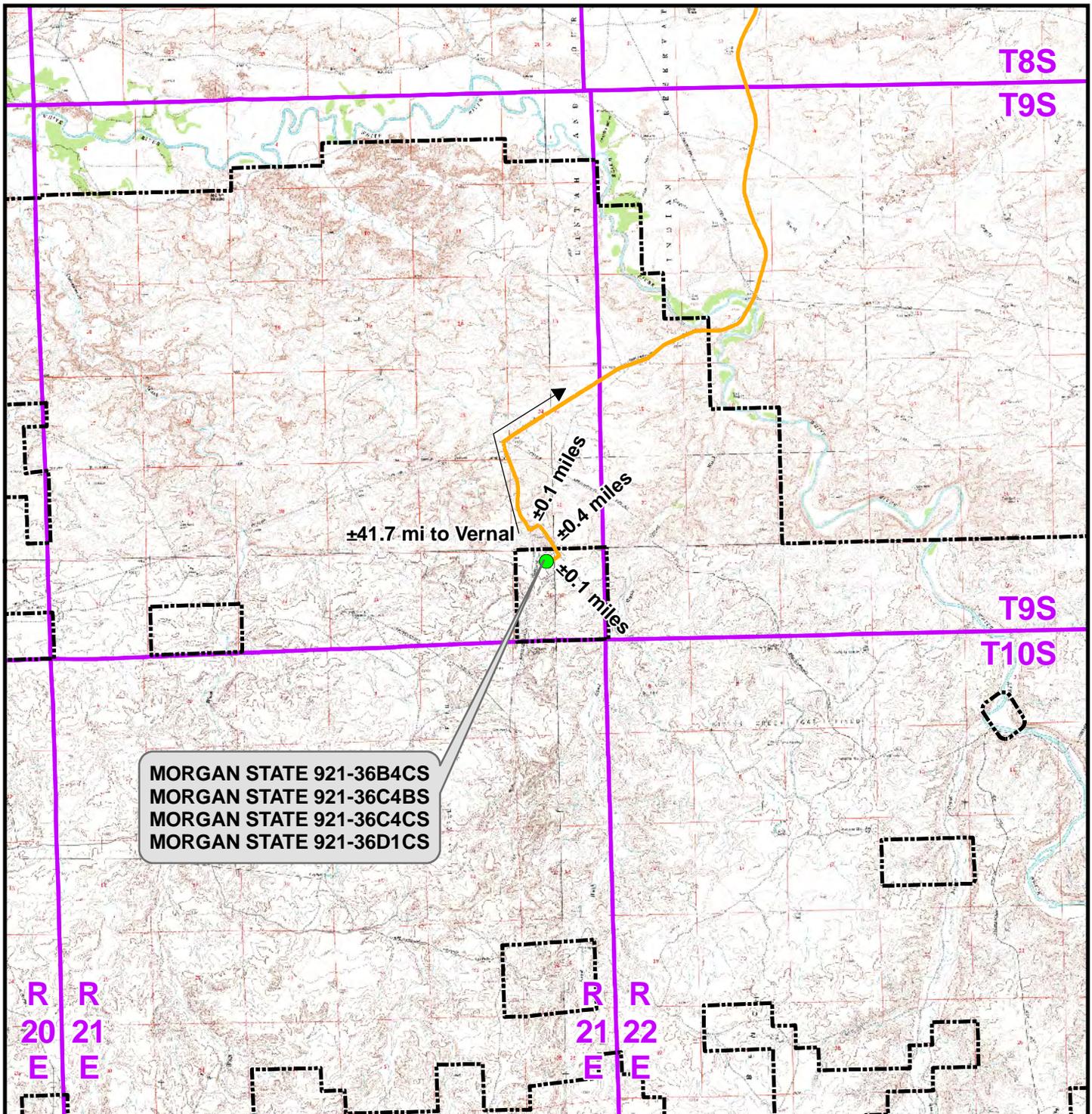
LOCATION PHOTOS
 MORGAN STATE 921-36B4CS,
 MORGAN STATE 921-36C4BS,
 MORGAN STATE 921-36C4CS &
 MORGAN STATE 921-36D1CS
 LOCATED IN SECTION 36, T9S, R21E,
 S.L.B.&M., Uintah County, Utah.



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 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 10-13-11	PHOTOS TAKEN BY: J.W.	SHEET NO: 9 9 OF 16
DATE DRAWN: 11-02-11	DRAWN BY: T.J.R.	
Date Last Revised:		



MORGAN STATE 921-36B4CS
 MORGAN STATE 921-36C4BS
 MORGAN STATE 921-36C4CS
 MORGAN STATE 921-36D1CS

Legend

- Proposed Well Location
- Natural Buttes Unit Boundary
- Access Route - Proposed

Distance From Well Pad - MORGAN STATE 921-36C To Unit Boundary: ±637ft

WELL PAD - MORGAN STATE 921-36C

TOPO A
 MORGAN STATE 921-36B4CS,
 MORGAN STATE 921-36C4BS,
 MORGAN STATE 921-36C4CS &
 MORGAN STATE 921-36D1CS
 LOCATED IN SECTION 36, T9S, R21E,
 S.L.B.&M., UINTAH COUNTY, UTAH

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SCALE: 1:100,000

NAD83 USP Central

SHEET NO:

DRAWN: TL

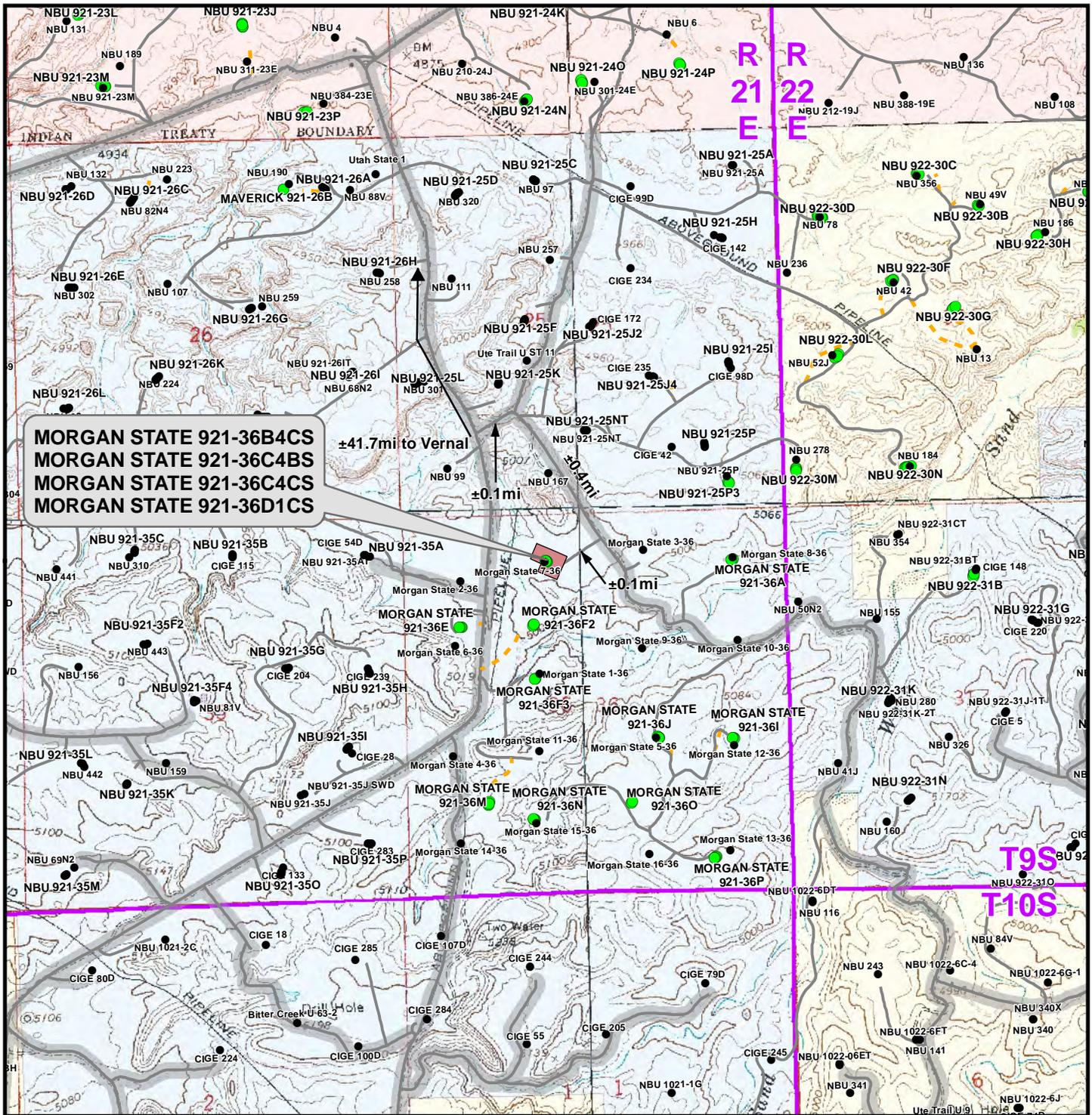
DATE: 11 Nov 2011

10

REVISED:

DATE:

10 OF 16



Legend

- Well - Proposed
- Well - Existing
- Well Pad
- Road - Proposed
- Road - Existing
- County Road
- Bureau of Land Management
- State
- Indian Reservation
- Private

Total Proposed Road Length: ±0ft

WELL PAD - MORGAN STATE 921-36C

TOPO B
 MORGAN STATE 921-36B4CS,
 MORGAN STATE 921-36C4BS,
 MORGAN STATE 921-36C4CS &
 MORGAN STATE 921-36D1CS
 LOCATED IN SECTION 36, T9S, R21E,
 S.L.B.&M., Uintah County, Utah

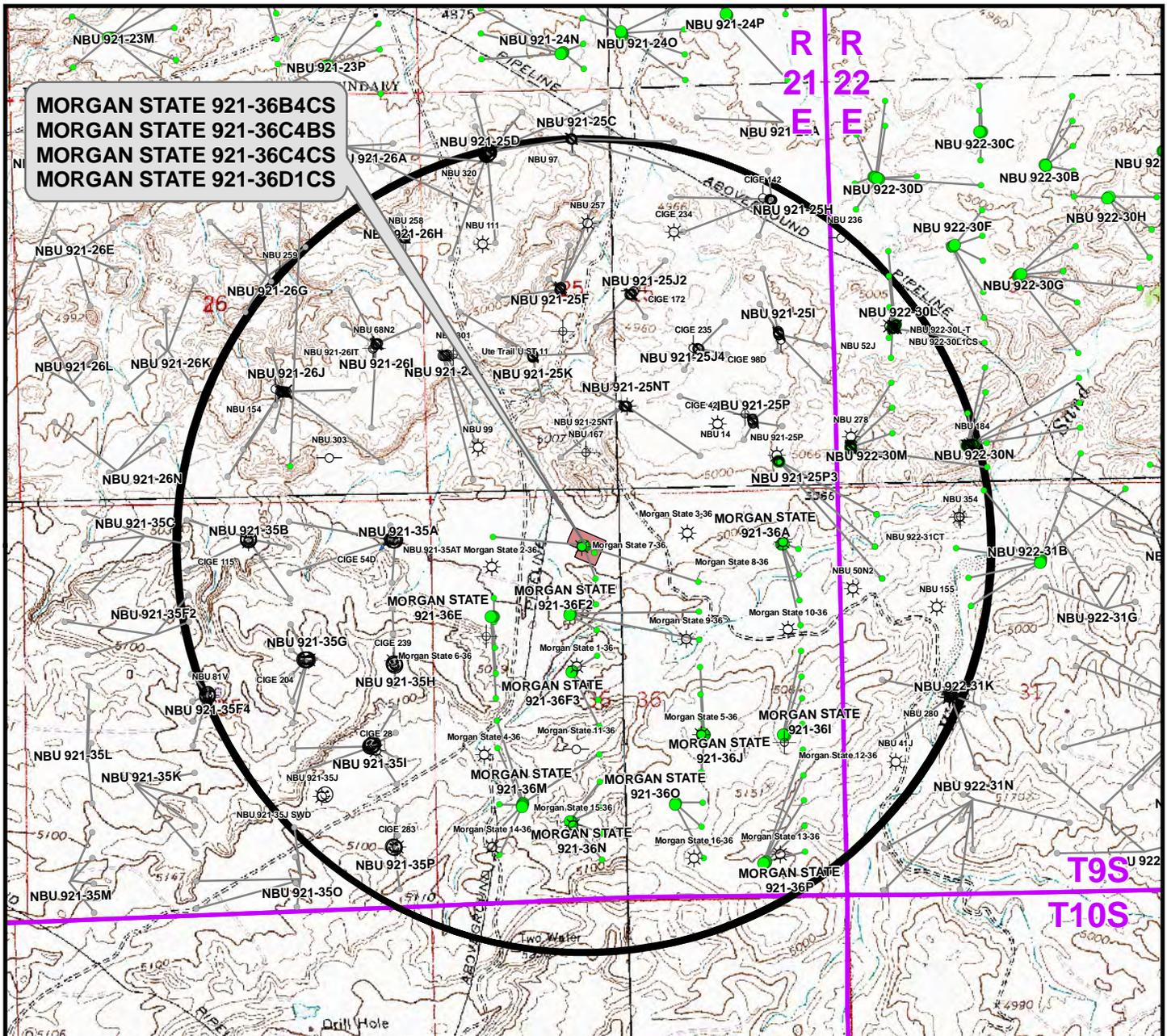
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SCALE: 1" = 2,000ft	NAD83 USP Central	SHEET NO:	11
DRAWN: TL	DATE: 11 Nov 2011	11 OF 16	
REVISED:	DATE:		



Well locations derived from Utah Division of Oil, Gas and Mining (UDOGM) (oilgas.ogm.utah.gov). The estimated distances from proposed bore locations to the nearest existing bore locations are based on UDOGM data.

Proposed Well	Nearest Well Bore	Footage
MORGAN STATE 921-36B4CS	Morgan State 3-36	644ft
MORGAN STATE 921-36C4BS	Morgan State 7-36	185ft
MORGAN STATE 921-36C4CS	Morgan State 7-36	449ft
MORGAN STATE 921-36D1CS	Morgan State 2-36	396ft

Legend

- Well - Proposed
- Well Path
- ☀ Producing
- ⊕ Deferred
- Bottom Hole - Proposed
- Well Pad
- ☺ Spudded
- ⊗ Cancelled
- ☉ APD Approved
- ⊖ Temporarily Abandoned
- ☼ Active Injector
- ⊙ Plugged & Abandoned
- Bottom Hole - Existing
- ◻ Well - 1 Mile Radius
- ⊗ Preliminary Location
- ⊗ Location Abandoned
- ⊖ Shut-In

WELL PAD - MORGAN STATE 921-36C

TOPO C
 MORGAN STATE 921-36B4CS,
 MORGAN STATE 921-36C4BS,
 MORGAN STATE 921-36C4CS &
 MORGAN STATE 921-36D1CS
 LOCATED IN SECTION 36, T9S, R21E,
 S.L.B.&M., Uintah County, Utah

Kerr-McGee Oil & Gas Onshore L.P.

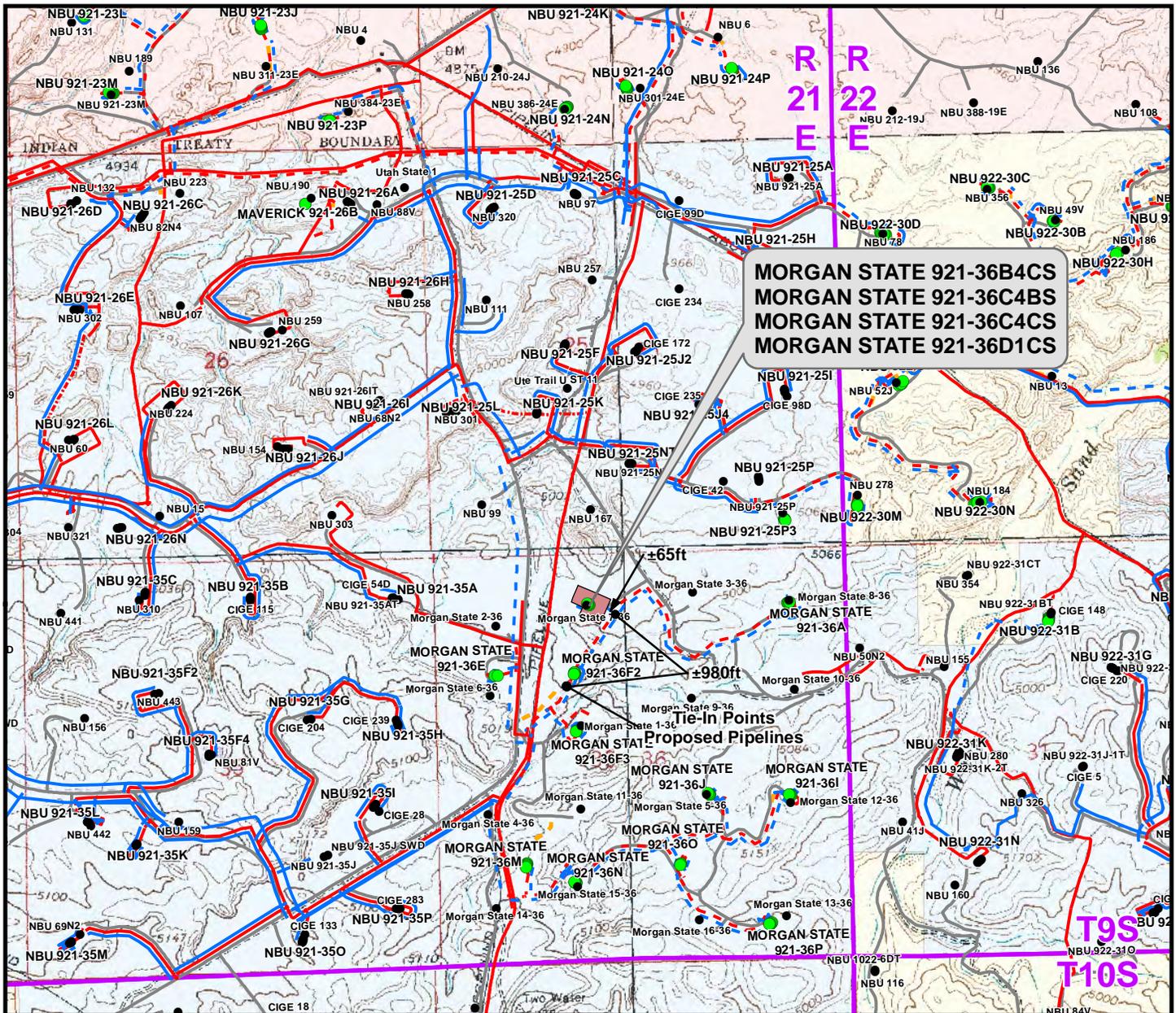
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 Denver, Colorado 80202

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SCALE: 1" = 2,000ft	NAD83 USP Central	12
DRAWN: TL	DATE: 11 Nov 2011	
REVISED:	DATE:	

SHEET NO:
12 OF 16



**MORGAN STATE 921-36B4CS
MORGAN STATE 921-36C4BS
MORGAN STATE 921-36C4CS
MORGAN STATE 921-36D1CS**

Proposed Liquid Pipeline	Length
Buried 6" (Max.) (Meter House to Edge of Pad)	±390ft
Buried 6" (Max.) (Edge of Pad to 36A Intersection)	±65ft
Buried 6" (Max.) (36A Intersection to 36F2 Intersection)	±980ft
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±1,435ft

Proposed Gas Pipeline	Length
Buried 6" (Meter House to Edge of Pad)	±390ft
Buried 6" (Edge of Pad to 36A Intersection)	±65ft
Buried 10" (36A Intersection to 36F2 Intersection)	±980ft
TOTAL PROPOSED BURIED GAS PIPELINE =	±1,435ft

Legend

- Well - Proposed - - - Gas Pipeline - Proposed - - - Liquid Pipeline - Proposed - - - Road - Proposed Bureau of Land Management State
- Well - Existing - - - Gas Pipeline - To Be Upgraded - - - Liquid Pipeline - Existing - - - Road - Existing Indian Reservation Private
- Well Pad - - - Gas Pipeline - Existing

WELL PAD - MORGAN STATE 921-36C

TOPO D
MORGAN STATE 921-36B4CS,
MORGAN STATE 921-36C4BS,
MORGAN STATE 921-36C4CS &
MORGAN STATE 921-36D1CS
LOCATED IN SECTION 36, T9S, R21E,
S.L.B.&M., Uintah County, Utah

**Kerr-McGee Oil &
Gas Onshore L.P.**

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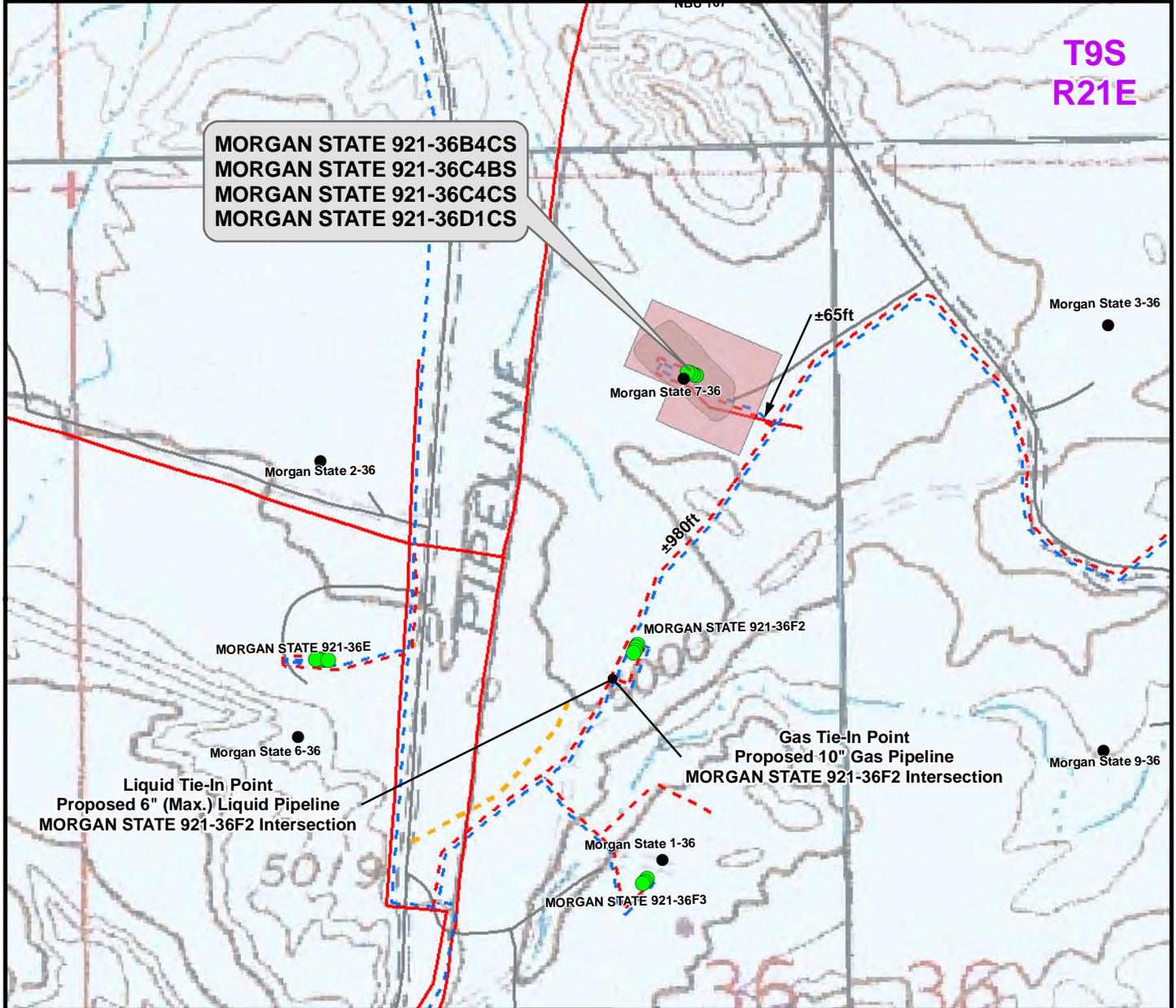


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SCALE: 1" = 2,000ft	NAD83 USP Central	13 13 OF 16
DRAWN: TL	DATE: 11 Nov 2011	
REVISED:	DATE:	

T9S
R21E

MORGAN STATE 921-36B4CS
MORGAN STATE 921-36C4BS
MORGAN STATE 921-36C4CS
MORGAN STATE 921-36D1CS



Proposed Liquid Pipeline	Length
Buried 6" (Max.) (Meter House to Edge of Pad)	±390ft
Buried 6" (Max.) (Edge of Pad to 36A Intersection)	±65ft
Buried 6" (Max.) (36A Intersection to 36F2 Intersection)	±980ft
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±1,435ft

Proposed Gas Pipeline	Length
Buried 6" (Meter House to Edge of Pad)	±390ft
Buried 6" (Edge of Pad to 36A Intersection)	±65ft
Buried 10" (36A Intersection to 36F2 Intersection)	±980ft
TOTAL PROPOSED BURIED GAS PIPELINE =	±1,435ft

Legend

- Well - Proposed
- Well - Existing
- Well Pad - Proposed
- Well Pad - Existing
- - - Gas Pipeline - Proposed
- - - Gas Pipeline - To Be Upgraded
- - - Gas Pipeline - Existing
- - - Liquid Pipeline - Proposed
- - - Liquid Pipeline - Existing
- - - Road - Proposed
- - - Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

WELL PAD - MORGAN STATE 921-36C

TOPO D2 (PAD & PIPELINE DETAIL)
MORGAN STATE 921-36B4CS,
MORGAN STATE 921-36C4BS,
MORGAN STATE 921-36C4CS &
MORGAN STATE 921-36D1CS
LOCATED IN SECTION 36, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH

**Kerr-McGee Oil &
Gas Onshore L.P.**

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Denver, Colorado 80202



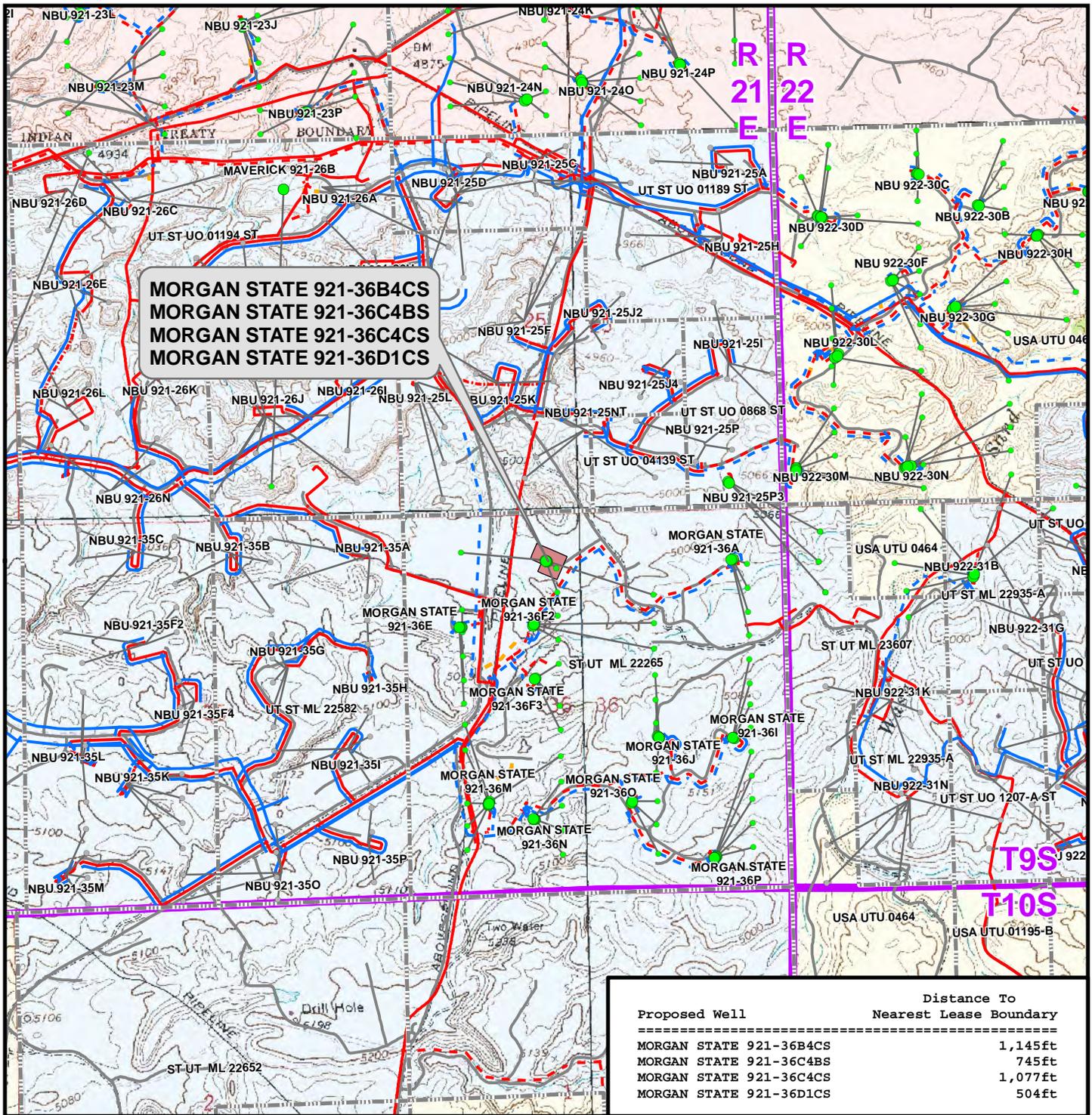
CONSULTING, LLC
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Sheridan, Wyoming 82801
Phone 307-674-0609
Fax 307-674-0182

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SCALE: 1" = 500ft	NAD83 USP Central	14
DRAWN: TL	DATE: 11 Nov 2011	
REVISED:	DATE:	

SHEET NO:
14 OF 16



Proposed Well	Distance To Nearest Lease Boundary
MORGAN STATE 921-36B4CS	1,145ft
MORGAN STATE 921-36C4BS	745ft
MORGAN STATE 921-36C4CS	1,077ft
MORGAN STATE 921-36D1CS	504ft

Legend

- Well - Proposed
- Bottom Hole - Proposed
- Bottom Hole - Existing
- Well Path
- Well Pad
- ▭ Lease Boundary
- Gas Pipeline - Proposed
- Gas Pipeline - To Be Upgraded
- Gas Pipeline - Existing
- Liquid Pipeline - Proposed
- Liquid Pipeline - Existing
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

WELL PAD - MORGAN STATE 921-36C

TOPO E
 MORGAN STATE 921-36B4CS,
 MORGAN STATE 921-36C4BS,
 MORGAN STATE 921-36C4CS &
 MORGAN STATE 921-36D1CS
 LOCATED IN SECTION 36, T9S, R21E,
 S.L.B.&M., Uintah County, Utah

**Kerr-McGee Oil &
 Gas Onshore L.P.**

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 Denver, Colorado 80202



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 Fax 307-674-0182

SCALE: 1" = 2,000ft	NAD83 USP Central	15
DRAWN: TL	DATE: 11 Nov 2011	
REVISED:	DATE:	

SHEET NO:
15 OF 16

Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – MORGAN STATE 921-36C
WELLS – MORGAN STATE 921-36B4CS, MORGAN STATE 921-36C4BS,
MORGAN STATE 921-36C4CS & MORGAN STATE 921-36D1CS
Section 36, T9S, R21E, S.L.B.&M.

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 18.2 miles to a Class D County Road to the northeast. Exit left and proceed in a northeasterly direction along the Class D County Road approximately 0.1 miles to a second Class D County Road to the southeast. Exit right and proceed in a southeasterly direction along the second Class D County Road approximately 0.4 miles to a service road to the southwest. Exit right and proceed in a southwesterly direction approximately 0.1 miles to the proposed well location.

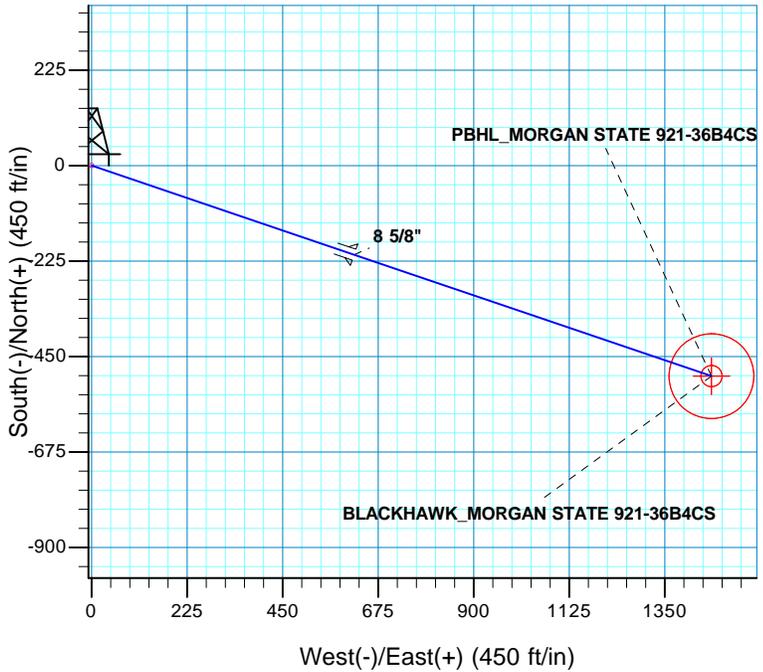
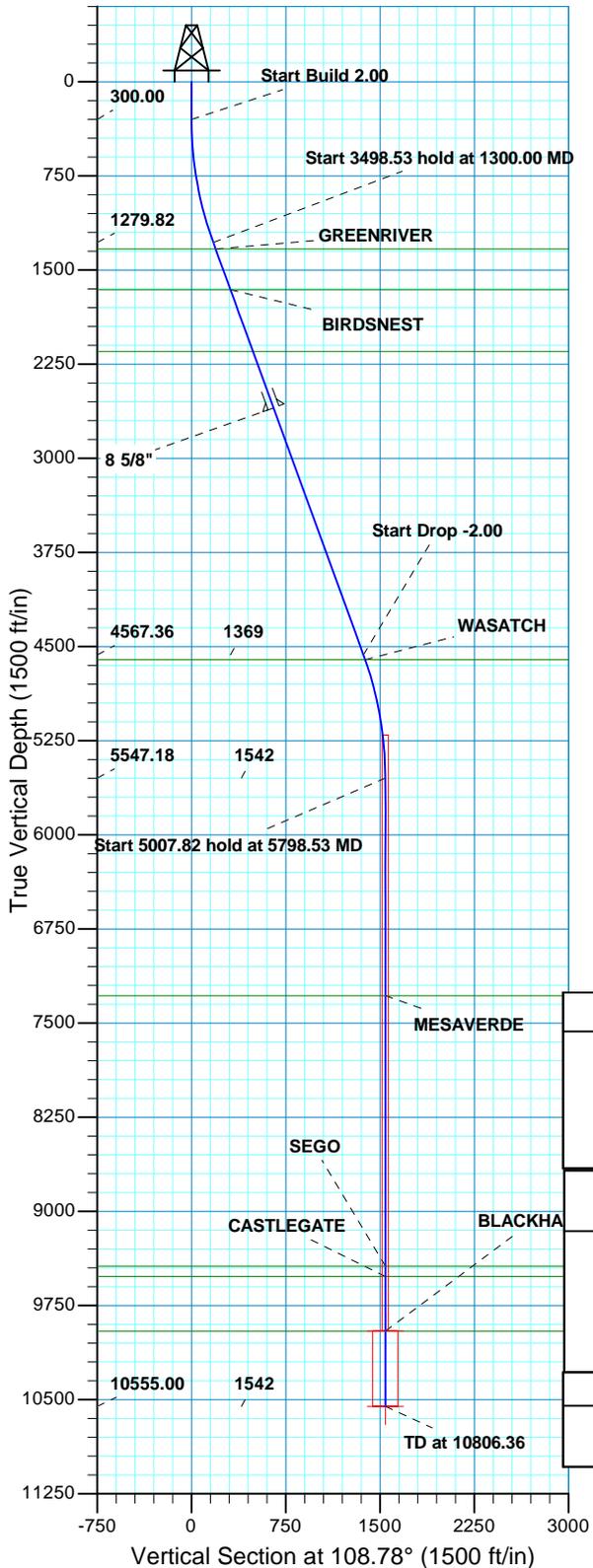
Total distance from Vernal, Utah to the proposed well location is approximately 42.3 miles in a southerly direction.



T M
 Azimuths to True North
 Magnetic North: 11.02°

Magnetic Field
 Strength: 52281.9snT
 Dip Angle: 65.85°
 Date: 2011/11/30
 Model: IGRF2010

WELL DETAILS: MORGAN STATE 921-36B4CS									
GL 4988 & KB 4 @ 4992.00ft (ASSUMED)									
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude				
0.00	0.00	14528840.76	2060076.46	39° 59' 52.771 N	109° 30' 5.764 W				
DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
BLACKHAWK	9955.00	-496.37	1460.03	14528369.01	2061544.63	39° 59' 47.864 N	109° 29' 47.000 W	Circle (Radius: 25.00)	
- plan hits target center									
PBHL	10555.00	-496.37	1460.03	14528369.01	2061544.63	39° 59' 47.864 N	109° 29' 47.000 W	Circle (Radius: 100.00)	
- plan hits target center									



SECTION DETAILS										
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00		
1300.00	20.00	108.78	1279.82	-55.61	163.57	2.00	108.78	172.77		
4798.53	20.00	108.78	4567.36	-440.76	1296.46	0.00	0.00	1369.34		
5798.53	0.00	0.00	5547.18	-496.37	1460.03	2.00	180.00	1542.10		
10806.36	0.00	0.00	10555.00	-496.37	1460.03	0.00	0.00	1542.10	PBHL_MORGAN STATE 921-36B4CS	

PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N		FORMATION TOP DETAILS		
Geodetic System: Universal Transverse Mercator (US Survey Feet)	TVDPath	MDPath	Formation	
Datum: NAD 1927 (NADCON CONUS)	1333.00	1356.60	GREENRIVER	
Ellipsoid: Clarke 1866	1657.00	1701.39	BIRDSNEST	
Zone: Zone 12N (114 W to 108 W)	2149.00	2224.97	MAHOGANY	
Location: SECTION 36 T9S R21E	4605.00	4838.49	WASATCH	
System Datum: Mean Sea Level	7282.00	7533.36	MESAVERDE	
	9437.00	9688.36	SEGO	
	9519.00	9770.36	CASTLEGATE	
	9955.00	10206.36	BLACKHAWK	

CASING DETAILS			
TVD	MD	Name	Size
2599.00	2703.85	8 5/8"	8.625

RECEIVED :



US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N

MORGAN STATE 921-36C PAD

MORGAN STATE 921-36B4CS

OH

Plan: PLAN #1 PRELIMINARY

Standard Planning Report

30 November, 2011





SDI
Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well MORGAN STATE 921-36B4CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4988 & KB 4 @ 4992.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4988 & KB 4 @ 4992.00ft (ASSUMED)
Site:	MORGAN STATE 921-36C PAD	North Reference:	True
Well:	MORGAN STATE 921-36B4CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Project	UTAH - UTM (feet), NAD27, Zone 12N		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	MORGAN STATE 921-36C PAD, SECTION 36 T9S R21E				
Site Position:	Northing:	14,528,840.77 usft	Latitude:	39° 59' 52.771 N	
From: Lat/Long	Easting:	2,060,076.45 usft	Longitude:	109° 30' 5.764 W	
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.96 °

Well	MORGAN STATE 921-36B4CS, 649 FNL 2016 FWL				
Well Position	+N/-S	0.00 ft	Northing:	14,528,840.77 usft	
	+E/-W	0.00 ft	Easting:	2,060,076.45 usft	
Position Uncertainty	0.00 ft	Wellhead Elevation:		Ground Level:	0.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2011/11/30	11.02	65.85	52,282

Design	PLAN #1 PRELIMINARY			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	108.78

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	20.00	108.78	1,279.82	-55.61	163.57	2.00	2.00	0.00	108.78	
4,798.53	20.00	108.78	4,567.36	-440.76	1,296.46	0.00	0.00	0.00	0.00	
5,798.53	0.00	0.00	5,547.18	-496.37	1,460.03	2.00	-2.00	0.00	180.00	
10,806.36	0.00	0.00	10,555.00	-496.37	1,460.03	0.00	0.00	0.00	0.00	PBHL_MORGAN ST/



SDI
Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well MORGAN STATE 921-36B4CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4988 & KB 4 @ 4992.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4988 & KB 4 @ 4992.00ft (ASSUMED)
Site:	MORGAN STATE 921-36C PAD	North Reference:	True
Well:	MORGAN STATE 921-36B4CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
Start Build 2.00										
400.00	2.00	108.78	399.98	-0.56	1.65	1.75	2.00	2.00	0.00	
500.00	4.00	108.78	499.84	-2.25	6.61	6.98	2.00	2.00	0.00	
600.00	6.00	108.78	599.45	-5.05	14.86	15.69	2.00	2.00	0.00	
700.00	8.00	108.78	698.70	-8.97	26.40	27.88	2.00	2.00	0.00	
800.00	10.00	108.78	797.47	-14.01	41.21	43.52	2.00	2.00	0.00	
900.00	12.00	108.78	895.62	-20.15	59.27	62.60	2.00	2.00	0.00	
1,000.00	14.00	108.78	993.06	-27.39	80.57	85.10	2.00	2.00	0.00	
1,100.00	16.00	108.78	1,089.64	-35.72	105.07	110.98	2.00	2.00	0.00	
1,200.00	18.00	108.78	1,185.27	-45.13	132.75	140.21	2.00	2.00	0.00	
1,300.00	20.00	108.78	1,279.82	-55.61	163.57	172.77	2.00	2.00	0.00	
Start 3498.53 hold at 1300.00 MD										
1,356.60	20.00	108.78	1,333.00	-61.84	181.90	192.13	0.00	0.00	0.00	
GREENRIVER										
1,400.00	20.00	108.78	1,373.78	-66.62	195.95	206.97	0.00	0.00	0.00	
1,500.00	20.00	108.78	1,467.75	-77.63	228.34	241.17	0.00	0.00	0.00	
1,600.00	20.00	108.78	1,561.72	-88.64	260.72	275.37	0.00	0.00	0.00	
1,700.00	20.00	108.78	1,655.69	-99.65	293.10	309.58	0.00	0.00	0.00	
1,701.39	20.00	108.78	1,657.00	-99.80	293.55	310.05	0.00	0.00	0.00	
BIRDSNEST										
1,800.00	20.00	108.78	1,749.66	-110.66	325.48	343.78	0.00	0.00	0.00	
1,900.00	20.00	108.78	1,843.63	-121.66	357.86	377.98	0.00	0.00	0.00	
2,000.00	20.00	108.78	1,937.60	-132.67	390.25	412.18	0.00	0.00	0.00	
2,100.00	20.00	108.78	2,031.57	-143.68	422.63	446.38	0.00	0.00	0.00	
2,200.00	20.00	108.78	2,125.54	-154.69	455.01	480.59	0.00	0.00	0.00	
2,224.97	20.00	108.78	2,149.00	-157.44	463.09	489.13	0.00	0.00	0.00	
MAHOGANY										
2,300.00	20.00	108.78	2,219.51	-165.70	487.39	514.79	0.00	0.00	0.00	
2,400.00	20.00	108.78	2,313.48	-176.71	519.77	548.99	0.00	0.00	0.00	
2,500.00	20.00	108.78	2,407.45	-187.72	552.15	583.19	0.00	0.00	0.00	
2,600.00	20.00	108.78	2,501.42	-198.73	584.54	617.39	0.00	0.00	0.00	
2,700.00	20.00	108.78	2,595.39	-209.74	616.92	651.60	0.00	0.00	0.00	
2,703.85	20.00	108.78	2,599.00	-210.16	618.16	652.91	0.00	0.00	0.00	
8 5/8"										
2,800.00	20.00	108.78	2,689.35	-220.75	649.30	685.80	0.00	0.00	0.00	
2,900.00	20.00	108.78	2,783.32	-231.75	681.68	720.00	0.00	0.00	0.00	
3,000.00	20.00	108.78	2,877.29	-242.76	714.06	754.20	0.00	0.00	0.00	
3,100.00	20.00	108.78	2,971.26	-253.77	746.45	788.40	0.00	0.00	0.00	
3,200.00	20.00	108.78	3,065.23	-264.78	778.83	822.61	0.00	0.00	0.00	
3,300.00	20.00	108.78	3,159.20	-275.79	811.21	856.81	0.00	0.00	0.00	
3,400.00	20.00	108.78	3,253.17	-286.80	843.59	891.01	0.00	0.00	0.00	
3,500.00	20.00	108.78	3,347.14	-297.81	875.97	925.21	0.00	0.00	0.00	
3,600.00	20.00	108.78	3,441.11	-308.82	908.35	959.41	0.00	0.00	0.00	
3,700.00	20.00	108.78	3,535.08	-319.83	940.74	993.62	0.00	0.00	0.00	
3,800.00	20.00	108.78	3,629.05	-330.84	973.12	1,027.82	0.00	0.00	0.00	
3,900.00	20.00	108.78	3,723.02	-341.84	1,005.50	1,062.02	0.00	0.00	0.00	
4,000.00	20.00	108.78	3,816.99	-352.85	1,037.88	1,096.22	0.00	0.00	0.00	
4,100.00	20.00	108.78	3,910.95	-363.86	1,070.26	1,130.42	0.00	0.00	0.00	
4,200.00	20.00	108.78	4,004.92	-374.87	1,102.64	1,164.63	0.00	0.00	0.00	



SDI
Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well MORGAN STATE 921-36B4CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4988 & KB 4 @ 4992.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4988 & KB 4 @ 4992.00ft (ASSUMED)
Site:	MORGAN STATE 921-36C PAD	North Reference:	True
Well:	MORGAN STATE 921-36B4CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
4,300.00	20.00	108.78	4,098.89	-385.88	1,135.03	1,198.83	0.00	0.00	0.00	
4,400.00	20.00	108.78	4,192.86	-396.89	1,167.41	1,233.03	0.00	0.00	0.00	
4,500.00	20.00	108.78	4,286.83	-407.90	1,199.79	1,267.23	0.00	0.00	0.00	
4,600.00	20.00	108.78	4,380.80	-418.91	1,232.17	1,301.43	0.00	0.00	0.00	
4,700.00	20.00	108.78	4,474.77	-429.92	1,264.55	1,335.64	0.00	0.00	0.00	
4,798.53	20.00	108.78	4,567.36	-440.76	1,296.46	1,369.34	0.00	0.00	0.00	
Start Drop -2.00										
4,800.00	19.97	108.78	4,568.74	-440.93	1,296.94	1,369.84	2.00	-2.00	0.00	
4,838.49	19.20	108.78	4,605.00	-445.08	1,309.15	1,382.74	2.00	-2.00	0.00	
WASATCH										
4,900.00	17.97	108.78	4,663.30	-451.39	1,327.71	1,402.34	2.00	-2.00	0.00	
5,000.00	15.97	108.78	4,758.94	-460.78	1,355.35	1,431.53	2.00	-2.00	0.00	
5,100.00	13.97	108.78	4,855.55	-469.10	1,379.80	1,457.36	2.00	-2.00	0.00	
5,200.00	11.97	108.78	4,952.99	-476.32	1,401.05	1,479.81	2.00	-2.00	0.00	
5,300.00	9.97	108.78	5,051.16	-482.45	1,419.07	1,498.84	2.00	-2.00	0.00	
5,400.00	7.97	108.78	5,149.93	-487.47	1,433.83	1,514.43	2.00	-2.00	0.00	
5,500.00	5.97	108.78	5,249.18	-491.37	1,445.32	1,526.56	2.00	-2.00	0.00	
5,600.00	3.97	108.78	5,348.80	-494.16	1,453.52	1,535.23	2.00	-2.00	0.00	
5,700.00	1.97	108.78	5,448.66	-495.83	1,458.43	1,540.41	2.00	-2.00	0.00	
5,798.53	0.00	0.00	5,547.18	-496.37	1,460.03	1,542.10	2.00	-2.00	0.00	
Start 5007.82 hold at 5798.53 MD										
5,800.00	0.00	0.00	5,548.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,648.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,748.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00	
6,100.00	0.00	0.00	5,848.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00	
6,200.00	0.00	0.00	5,948.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,048.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,148.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,248.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,348.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,448.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,548.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,648.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,748.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00	
7,100.00	0.00	0.00	6,848.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00	
7,200.00	0.00	0.00	6,948.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,048.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,148.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,248.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00	
7,533.36	0.00	0.00	7,282.00	-496.37	1,460.03	1,542.10	0.00	0.00	0.00	
MESAVERDE										
7,600.00	0.00	0.00	7,348.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,448.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,548.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,648.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,748.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00	
8,100.00	0.00	0.00	7,848.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00	
8,200.00	0.00	0.00	7,948.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,048.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,148.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,248.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,348.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,448.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00	



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well MORGAN STATE 921-36B4CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4988 & KB 4 @ 4992.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4988 & KB 4 @ 4992.00ft (ASSUMED)
Site:	MORGAN STATE 921-36C PAD	North Reference:	True
Well:	MORGAN STATE 921-36B4CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,800.00	0.00	0.00	8,548.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00
8,900.00	0.00	0.00	8,648.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00
9,000.00	0.00	0.00	8,748.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00
9,100.00	0.00	0.00	8,848.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00
9,200.00	0.00	0.00	8,948.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00
9,300.00	0.00	0.00	9,048.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00
9,400.00	0.00	0.00	9,148.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00
9,500.00	0.00	0.00	9,248.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00
9,600.00	0.00	0.00	9,348.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00
9,688.36	0.00	0.00	9,437.00	-496.37	1,460.03	1,542.10	0.00	0.00	0.00
SEGO									
9,700.00	0.00	0.00	9,448.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00
9,770.36	0.00	0.00	9,519.00	-496.37	1,460.03	1,542.10	0.00	0.00	0.00
CASTLEGATE									
9,800.00	0.00	0.00	9,548.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00
9,900.00	0.00	0.00	9,648.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00
10,000.00	0.00	0.00	9,748.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00
10,100.00	0.00	0.00	9,848.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00
10,200.00	0.00	0.00	9,948.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00
10,206.36	0.00	0.00	9,955.00	-496.37	1,460.03	1,542.10	0.00	0.00	0.00
BLACKHAWK - BLACKHAWK_MORGAN STATE 921-36B4CS									
10,300.00	0.00	0.00	10,048.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00
10,400.00	0.00	0.00	10,148.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00
10,500.00	0.00	0.00	10,248.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00
10,600.00	0.00	0.00	10,348.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00
10,700.00	0.00	0.00	10,448.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00
10,800.00	0.00	0.00	10,548.64	-496.37	1,460.03	1,542.10	0.00	0.00	0.00
10,806.36	0.00	0.00	10,555.00	-496.37	1,460.03	1,542.10	0.00	0.00	0.00
TD at 10806.36 - PBHL_MORGAN STATE 921-36B4CS									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BLACKHAWK_MORGAI - hit/miss target - Shape	0.00	0.00	9,955.00	-496.37	1,460.03	14,528,369.01	2,061,544.62	39° 59' 47.864 N	109° 29' 47.000 W
- plan hits target center - Circle (radius 25.00)									
PBHL_MORGAN STATI - plan hits target center - Circle (radius 100.00)	0.00	0.00	10,555.00	-496.37	1,460.03	14,528,369.01	2,061,544.62	39° 59' 47.864 N	109° 29' 47.000 W

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,703.85	2,599.00	8 5/8"	8.625	11.000	



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well MORGAN STATE 921-36B4CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4988 & KB 4 @ 4992.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4988 & KB 4 @ 4992.00ft (ASSUMED)
Site:	MORGAN STATE 921-36C PAD	North Reference:	True
Well:	MORGAN STATE 921-36B4CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,356.60	1,333.00	GREENRIVER				
1,701.39	1,657.00	BIRDSNEST				
2,224.97	2,149.00	MAHOGANY				
4,838.49	4,605.00	WASATCH				
7,533.36	7,282.00	MESAVERDE				
9,688.36	9,437.00	SEGO				
9,770.36	9,519.00	CASTLEGATE				
10,206.36	9,955.00	BLACKHAWK				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
300.00	300.00	0.00	0.00	Start Build 2.00	
1,300.00	1,279.82	-55.61	163.57	Start 3498.53 hold at 1300.00 MD	
4,798.53	4,567.36	-440.76	1,296.46	Start Drop -2.00	
5,798.53	5,547.18	-496.37	1,460.03	Start 5007.82 hold at 5798.53 MD	
10,806.36	10,555.00	-496.37	1,460.03	TD at 10806.36	

MORGAN STATE 921-36B4CS

Surface:	649 FNL / 2016 FWL	NENW	Lot
BHL:	1145 FNL / 1800 FEL	NWNE	Lot

MORGAN STATE 921-36C4BS

Surface:	645 FNL / 2007 FWL	NENW	Lot
BHL:	745 FNL / 2143 FWL	NENW	Lot

MORGAN STATE 921-36C4CS

Surface:	641 FNL / 1998 FWL	NENW	Lot
BHL:	1077 FNL / 2143 FWL	NENW	Lot

MORGAN STATE 921-36D1CS

Surface:	637 FNL / 1989 FWL	NENW	Lot
BHL:	504 FNL / 828 FWL	NWNW	Lot

Pad: MORGAN STATE 921-36C PAD

Section 36 T9S R21E
Mineral Lease: ML-22265

Uintah County, Utah
Operator: Kerr-McGee Oil & Gas Onshore LP

This SUPO contains surface operating procedures for Kerr-McGee Oil & Gas Onshore LP (KMG), a wholly owned subsidiary of Anadarko Petroleum Corporation (APC) pertaining to actions that involve the State of Utah School and Institutional Trust Lands Administration (SITLA) in the development of minerals leased to APC/KMG (including but not limited to, APDs/SULAs/ROEs/ROWs and/or easements.)

See associated Utah Division of Oil, Gas, and Mining (UDOGM) Form 3(s), plats, maps, and other attachments for site-specific information on projects represented herein.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

A. Existing Roads:

Existing roads consist of county and improved/unimproved lease roads. KMG will maintain existing roads in a condition that is the same as or better than before operations began and in a safe and usable condition. Maintenance of existing roads will continue until final abandonment and reclamation of well pads and/or other facilities. The road maintenance may include, but is not limited to, blading, ditching, culvert installation/cleanout, surfacing, and dust control.

Typically, roads, gathering lines and electrical distribution lines will occupy common disturbance corridors and roadways will be used as working space. All disturbances located in the same corridor will overlap each other to the maximum extent possible; in no case will the maximum disturbance width of the access road and utility corridors exceed 50', unless otherwise approved.

B. Planned Access Roads:

No new access road is proposed. (see Topo Map B). Applicable Uintah County encroachment and/or pipeline crossing permits will be obtained prior to construction/development. No other pipelines will be crossed at this location.

If there are roads that are new or to be reconstructed, they will be located, designed, and maintained to meet the standards of SITLA and other commonly accepted Best Management Practices (BMPs). If a new road/corridor were to cross a water of the United States, KMG will adhere to the requirements of applicable Nationwide or Individual Permits of the Department of Army Corps of Engineers.

During the onsite, turnouts, major cut and fills, culverts, bridges, gates, cattle guards, low water crossings, or modifications needed to existing infrastructure/facilities were determined, as applicable, are typically shown on attached Exhibits and Topo maps.

C. Location of Existing and Proposed Facilities:

This pad will expand the existing pad for the Morgan State 7-36. The Morgan State 7-36 well location is a vertical producing well according to Utah Division of Oil, Gas and Mining (UDOGM) records as of December 5, 2011.

Production facilities (see Well Pad Design Summary and Facilities Diagram):

Production facilities will be installed on the disturbed portion of the well pad and may include bermed components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will be constructed of compacted subsoil or corrugated metal, impervious, designed to hold 110% of the capacity of the largest tank, and be independent of the back cut. All permanent (on-site six months or longer) above ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with SITLA.

Gathering Facilities:

The following pipeline transmission facilities will apply if the well is productive (see Topo D):

The total gas gathering (steel line pipe with fusion bond epoxy coating) pipeline distances from the meter to the tie in point is $\pm 1,435'$ and the individual segments are broken up as follows:

- $\pm 390'$ (0.1 miles) –New 6" buried gas pipeline from the meter to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.
- $\pm 65'$ (0.01 miles) –New 6" buried gas pipeline from the edge of pad to the 921-36A intersection. Please refer to Topo D2 - Pad and Pipeline Detail.
- $\pm 980'$ (0.2 miles) –New 10" buried gas pipeline from the 921-36A intersection to the 921-36F2 intersection. Please refer to Topo D2 - Pad and Pipeline Detail.

The total liquid gathering pipeline distance from the separator to the tie in point is $\pm 1,435'$ and the individual segments are broken up as follows:

- $\pm 390'$ (0.1 miles) –New 6” buried liquid pipeline from the separator to the edge of the pad.
Please refer to Topo D2 - Pad and Pipeline Detail.
- $\pm 65'$ (0.01 miles) –New 6” buried liquid pipeline from the edge of pad to the 921-36A intersection.
Please refer to Topo D2 - Pad and Pipeline Detail.
- $\pm 980'$ (0.2 miles) –New 6” buried liquid pipeline from the 921-36A intersection to the 921-36F2 intersection. Please refer to Topo D2 - Pad and Pipeline Detail.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

The proposed pipelines will be buried and will include gas gathering and liquid gathering pipelines in the same trench. Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. KMG requests a permanent 30' right-of-way adjacent to the road for life-of-project for maintenance, repairs, and/or upgrades, no additional right-of-way will be needed beyond the 30'. Where the pipeline is not adjacent to the road or well pad, KMG requests a temporary 45' construction right-of-way 30' permanent right-of-way.

The proposed trench width for the pipeline would range from 18-48 inches and will be excavated to a depth of 48 to 60 inches of normal soil cover or 24 inches of cover in consolidated rock. During construction blasting may occur along the proposed right-of-way where trenching equipment cannot cut into the bedrock. Large debris and rocks removed from the earth during trenching and blasting that could not be returned to the trench would be distributed evenly and naturally in the project area. The proposed pipelines will be pressure tested pneumatically (depending on size) or with fluids (either fresh or produced). If fluids are used, there will be no discharge to the surface.

Pipeline signs will be installed along the right-of-way to indicate the pipeline proximity and ownership, as well as to provide emergency contact phone numbers. Above ground valves, T's, and/or cathodic protection will be installed at various locations for connection, corrosion prevention and/or for safety purposes.

D. Location and Type of Water Supply:

Water for drilling purposes will be obtained from one of the following sources:

- Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim number 43-8496, application number 53617.
- Price Water Pumping Inc. Green River and White River, various sources, Water Right Number 49-1659, application number: a35745.

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

E. Source of Construction Materials:

Construction operations will typically be completed with native materials found on location. If needed, construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source and described in subsequent Sundry requests. No construction materials will be removed from State lands without prior approval from SITLA.

F. Methods for Handling Waste Materials:

Should the well be productive, produced water will be contained in a water tank and will be transported by pipeline and/or truck to an approved disposal sites facilities and/or Salt Water Disposal (SWD) injection well. Currently, those facilities are:

RNI in Sec. 5 T9S R22E
 Ace Oilfield in Sec. 2 T6S R20E
 MC&MC in Sec. 12 T6S R19E
 Pipeline Facility in Sec. 36 T9S R20E
 Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E
 Bonanza Evaporation Pond in Sec. 2 T10S R23E
 Ouray #1 SWD in Sec. 1 T9S R21E
 NBU 159 SWD in Sec. 35 T9S R21E
 CIGE 112D SWD in Sec. 19 T9S R21E
 CIGE 114 SWD in Sec. 34 T9S R21E
 NBU 921-34K SWD in Sec. 34 T9S R21E
 NBU 921-33F SWD in Sec. 33 T9S R21E
 NBU 921-34L SWD in Sec. 34 T9S R21E

Kerr-McGee will use either a closed loop drilling system that will require one pit and one cuttings storage area to be constructed on the drilling pad or a traditional drilling operation with one pit used for drilling and completion operations. The cuttings storage area will be used to contain only the de-watered drill cuttings and will be lined and bermed to prevent any liquid runoff. The drill cuttings will be buried in the completion pit once completion operations are completed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit will be lined with a synthetic material 20 mil or thicker and will be used for the completing of the wells on the pad or used as part of our Aandarko Completions Transportation System (ACTS). Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completions pit.

If Kerr-McGee does not use a closed loop drilling system, it will construct a traditional drilling/completions pit to contain drill cuttings and for use in completion operations. The pit will be lined with a synthetic material 20 mil or thicker. The drill cuttings will be buried in the pit using traditional pit closure standards.

Unless otherwise approved, no oil or other oil based drill additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water, biodegradable polymer soap, bentonite clay, and /or non-toxic additives will be used in the system.

Pits will be constructed to minimize the accumulation of surface runoff. Should fluid hydrocarbons be encountered during drilling, completions, or well testing, product will either be contained in test tanks on the well site or evacuated by vacuum

trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be release into the pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternative is approved by SITLA. Should timely removal prove infeasible, the pit will be netted with mesh no larger than 1 inch until such time as the hydrocarbons can be removed. Hydrocarbon removal will also take place prior to the closure of the pit, unless authorization is provided for disposal via alternative pit closure methods. (e.g. solidification)

Any additional pits necessary for subsequent operations, such as temporary flare pits, or workover pits, will contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of the work.

For the protection of livestock and wildlife, all open pits and cellars will be fenced/covered to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after after six (6) months from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Additional drying methods may include fly-ash solidification or sprinkler evaporation. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift. Reserve pit liners will be cut off or folded as near to the mud surface as possible and as safety considerations allow and buried on location.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

Any undesirable event, including accidental release of fluids, or release in excess of reportable quantities, will be managed according to the notification requirements of UDOGMs "Reporting Oil and Gas Undesirable Events" rule. Where State wells are participatory to a Federal agreement, according to NTL-3A, the appropriate Federal agencies will be notified.

Materials Management

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term "hazardous materials" as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities and may be kept in limited quantities on drilling sites and well locations for short periods of time during drilling or completion activities.

G. Ancillary Facilities:

None are anticipated.

H. Well Site Layout (see Well Pad Design Summary):

The location, orientation and aerial extent of each drill pad; reserve/completion/flare pit; access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure; proposed cuts and fills; and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment and facility layout; however, the area of disturbance, as described in the survey, will not be exceeded.

Coordinates are provided in the National Spatial Reference System, North American Datum, 1927 (NAD27) or latest edition. Distances are depicted on each plat to the nearest two adjacent section lines.

I. Plans for Reclamation of the Surface:

Surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. This reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but is not limited to the re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

Interim Reclamation

Interim reclamation includes pit closure, re-contouring (where possible), soil bed preparation, topsoil placement, seeding, and/or weed control.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for interim reclamation where practical to maintain soil viability. Where possible, the land surface will be left "rough" after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/

completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit.

Final Reclamation

Final reclamation will be performed for newly drilled unproductive wells and/or at the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by KMG. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring, final grading will be conducted over the entire surface of the well site and access road. Where practical, the area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers and surface materials will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep perpendicular to the natural flow of water.

All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to UDOGM.

Seeding and Measures Common to Interim and Final Reclamation

Reclaimed areas may be fenced to exclude grazing and encourage re-vegetation.

On slopes where severe erosion can become a problem and the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. The slope will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to, erosion control blankets and bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage.

Seeding will occur year-round as conditions allow. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for re-vegetation. The site specific seed mix will be provided by SITLA.

J. Surface/Mineral Ownership:

SITLA
675 East 500 South, Suite 500
Salt Lake City, UT 84102

L. Other Information:

None

M. Lessee's or Operators' Representative & Certification:

Danielle Piernot
Regulatory Analyst II
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6156

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage for State lease activities is provided by State Surety Bond 22013542, and for applicable Federal lease activities and pursuant to 43 CFR 3104, by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.



Danielle Piernot

December 19, 2011

Date



Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
DENVER, CO 80217-3779

December 14, 2011

Ms. Diana Mason
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-6100

Re: Directional Drilling R649-3-11
Morgan State 921-36B4CS
T9S-R21E
Section 36: NENW (Surface), NWNE (Bottom Hole)
Surface: 649' FNL, 2016' FWL
Bottom Hole: 1145' FNL, 1800' FEL
Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling.

- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing roads and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information, Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

A handwritten signature in blue ink that reads 'Joe Matney'.

Joe Matney
Sr. Staff Landman

From: Jim Davis
To: APD APPROVAL
CC: Danielle Piernot; Julie Jacobson
Date: 2/23/2012 3:22 PM
Subject: APD Approval: the Kerr McGee Morgan State wells

The following wells have been approved by SITLA including arch and paleo clearance.

4304752246 Morgan State 921-36G4BS
4304752253 Morgan State 921-36G4CS
4304752255 Morgan State 921-36J1CS
4304752256 Morgan State 921-36J4BS
4304752281 Morgan State 921-36F1BS
4304752282 Morgan State 921-36F1CS
4304752283 Morgan State 921-36G1BS
4304752284 Morgan State 921-36G1CS
4304752285 Morgan State 921-36F4BS
4304752286 Morgan State 921-36K1BS
4304752287 Morgan State 921-36K1CS
4304752247 Morgan State 921-36P1BS
4304752248 Morgan State 921-36P1CS
4304752249 Morgan State 921-36I4BS
4304752250 Morgan State 921-36I4CS
4304752252 Morgan State 921-36P4BS
4304752263 Morgan State 921-36K4CS
4304752264 Morgan State 921-36N1BS
4304752265 Morgan State 921-36N1CS
4304752266 Morgan State 921-36N4BS
4304752276 Morgan State 921-36D4CS
4304752277 Morgan State 921-36E1BS
4304752278 Morgan State 921-36E1CS
4304752279 Morgan State 921-36E4BS
4304752280 Morgan State 921-36E4CS
4304752245 Morgan State 921-36O4CS
4304752254 Morgan State 921-36O1CS
4304752267 Morgan State 921-36O1BS
4304752257 Morgan State 921-36K4BS
4304752258 Morgan State 921-36L1BS
4304752259 Morgan State 921-36L1CS
4304752260 Morgan State 921-36M1BS
4304752261 Morgan State 921-36M1CS
4304752262 Morgan State 921-36M4BS
4304752272 Morgan State 921-36B4CS
4304752273 Morgan State 921-36C4BS
4304752274 Morgan State 921-36C4CS
4304752275 Morgan State 921-36D1CS

There are eight more wells on two pads in this section, the 36A pad and the 36I pad, that have not yet been approved. Anadarko is gathering reclamation cost figures on pads similar to those as part of the process of acquiring adequate SITLA bonds.

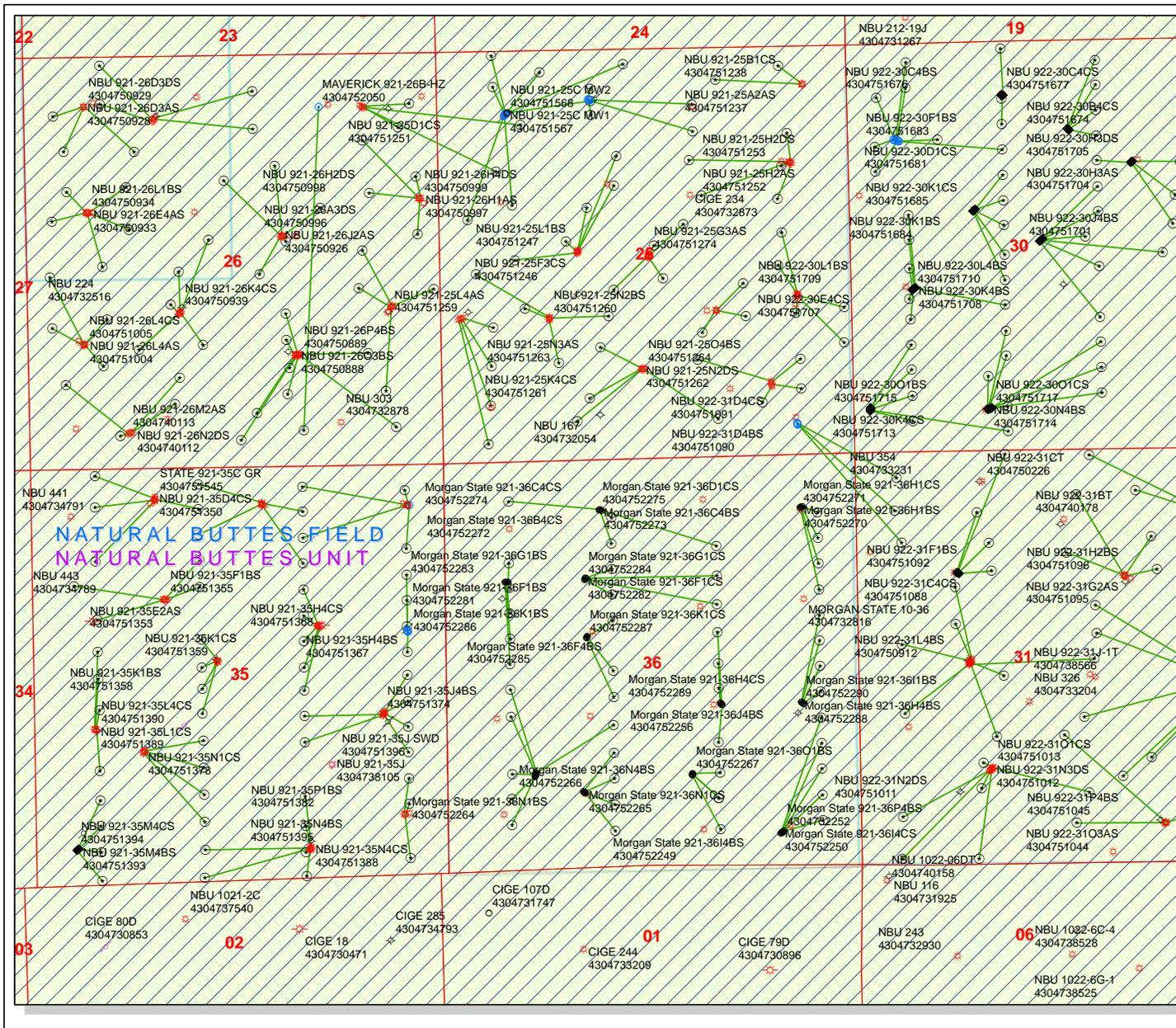
-Jim

Jim Davis
Utah Trust Lands Administration
jimdavis1@utah.gov

API Well Number: 43047522720000

Phone: (801) 538-5156

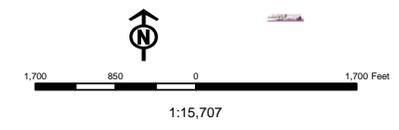
RECEIVED: February 23, 2012



API Number: 4304752272
Well Name: Morgan State 921-36B4CS
Township T0.9 . Range R2.1 . Section 36
Meridian: SLBM
Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
 Map Produced by Diana Mason

- | | |
|----------------------|-------------------------------------|
| Units STATUS | Wells Query Status |
| ACTIVE | APD - Approved Permit |
| EXPLORATORY | DRIL - Spudded (Drilling Commenced) |
| GAS STORAGE | GIW - Gas Injection |
| NF PP OIL | GS - Gas Storage |
| NF SECONDARY | LA - Location Abandoned |
| PI OIL | LOC - New Location |
| PP GAS | OPS - Operation Suspended |
| PP GEOTHERM. | PA - Plugged Abandoned |
| PP OIL | PGW - Producing Gas Well |
| SECONDARY | POW - Producing Oil Well |
| TERMINATED | RET - Returned APD |
| Fields STATUS | SGW - Shut-in Gas Well |
| Unknown | SOW - Shut-in Oil Well |
| ABANDONED | TA - Temp. Abandoned |
| ACTIVE | TW - Test Well |
| COMBINED | WDW - Water Disposal |
| INACTIVE | WWI - Water Injection Well |
| STORAGE | WSW - Water Supply Well |
| TERMINATED | |



Well Name	KERR-MCGEE OIL & GAS ONSHORE, L.P. Morgan State 921-36B4CS			
String	Surf	Prod		
Casing Size(")	8.625	4.500		
Setting Depth (TVD)	2501	10555		
Previous Shoe Setting Depth (TVD)	0	2501		
Max Mud Weight (ppg)	8.4	13.0		
BOPE Proposed (psi)	500	5000		
Casing Internal Yield (psi)	3390	10690		
Operators Max Anticipated Pressure (psi)	6966	12.7		

Calculations	Surf String	8.625	"
Max BHP (psi)	.052*Setting Depth*MW=	1092	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	792	NO <input type="checkbox"/> air drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	542	NO <input type="checkbox"/> Reasonable depth in area
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	542	NO <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		2373	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

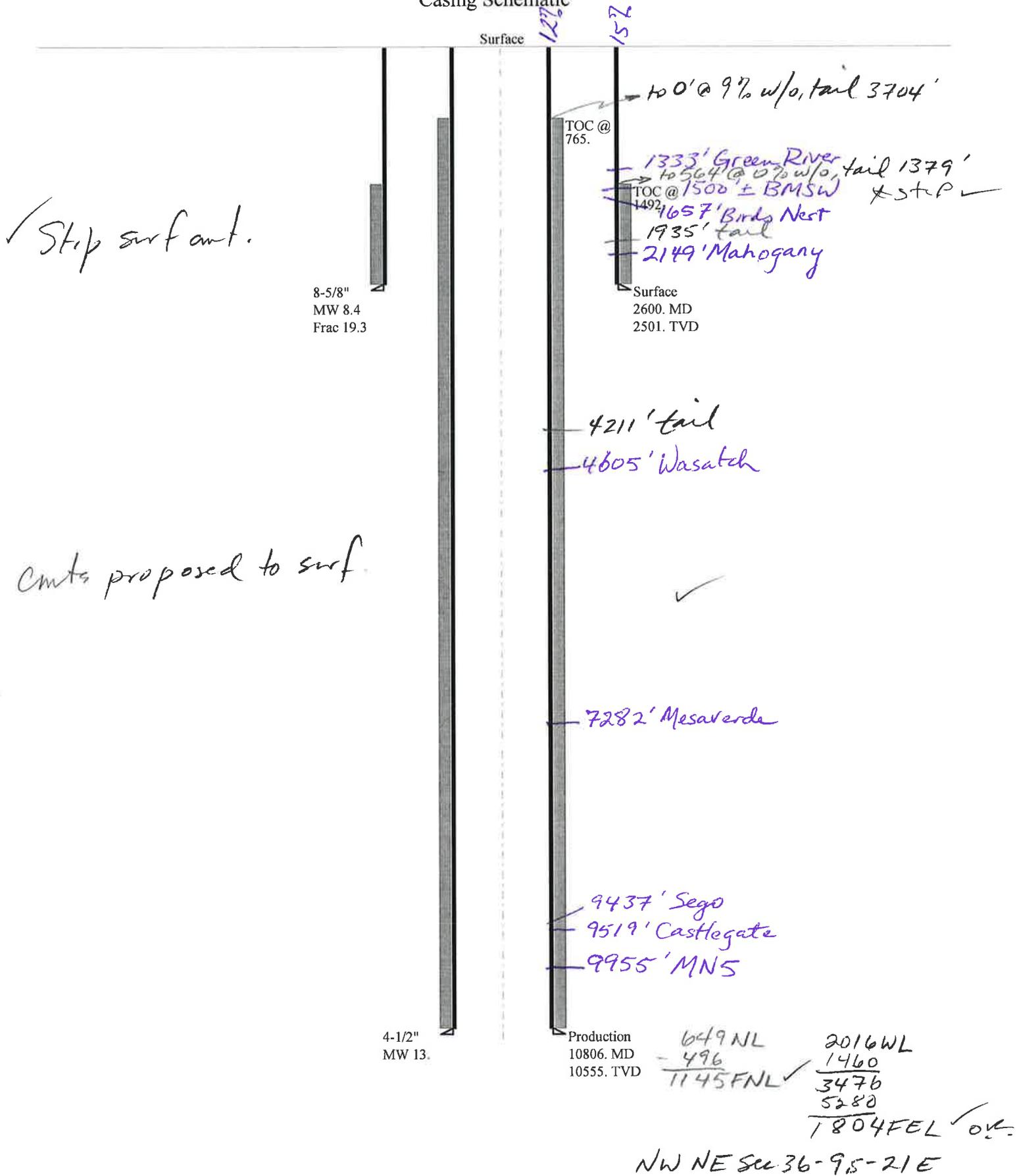
Calculations	Prod String	4.500	"
Max BHP (psi)	.052*Setting Depth*MW=	7135	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	5868	NO <input type="checkbox"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	4813	YES <input type="checkbox"/> OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	5363	NO <input type="checkbox"/> Reasonable
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2501	psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	.052*Setting Depth*MW=		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO <input type="checkbox"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO <input type="checkbox"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO <input type="checkbox"/>
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	.052*Setting Depth*MW=		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO <input type="checkbox"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO <input type="checkbox"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO <input type="checkbox"/>
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

430475227 20000 Morgan State 921-36B4CS

Casing Schematic



Well name:	430475227' 20000 Morgan State 921-36B4CS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Surface	Project ID:	43-047-52272
Location:	UINTAH	COUNTY	

Design parameters:

Collapse

Mud weight: 8.400 ppg
 Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 109 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft

Cement top: 1,492 ft

Burst

Max anticipated surface pressure: 2,201 psi
 Internal gradient: 0.120 psi/ft
 Calculated BHP 2,501 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
 8 Round LTC: 1.70 (J)
 Buttress: 1.60 (J)
 Premium: 1.50 (J)
 Body yield: 1.50 (B)

Tension is based on air weight.
 Neutral point: 2,270 ft

Directional Info - Build & Drop

Kick-off point 300 ft
 Departure at shoe: 617 ft
 Maximum dogleg: 2 °/100ft
 Inclination at shoe: 20 °

Re subsequent strings:

Next setting depth: 10,555 ft
 Next mud weight: 13.000 ppg
 Next setting BHP: 7,128 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 2,501 ft
 Injection pressure: 2,501 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	2600	8.625	28.00	I-55	LT&C	2501	2600	7.892	102956
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	1091	1880	1.722	2501	3390	1.36	70	348	4.97 J

Prepared by: Helen Sadik-Macdonald
 Div of Oil, Gas & Mining

Phone: 801 538-5357
 FAX: 801-359-3940

Date: March 1, 2012
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2501 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Well name:	430475227 20000 Morgan State 921-36B4CS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Production	Project ID:	43-047-52272
Location:	UINTAH	COUNTY	

Design parameters:**Collapse**

Mud weight: 13.000 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 222 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 765 ft

Burst

Max anticipated surface pressure: 4,806 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 7,128 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Tension is based on air weight.
Neutral point: 8,755 ft

Directional well information:

Kick-off point 300 ft
Departure at shoe: 1542 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 0 °

Estimated cost: 159,973 (\$)

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
2	5000	4.5	11.60	HCP-110	DQX	4759	5000	3.875	132000
1	5806	4.5	11.60	HCP-110	LT&C	10555	10806	3.875	27973

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
2	3214	8034	2.500	5853	10690	1.83	122.4	367.2	3.00 B
1	7128	8650	1.214	7128	10690	1.50	67.2	279	4.15 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: March 1, 2012
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 10555 ft, a mud weight of 13 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

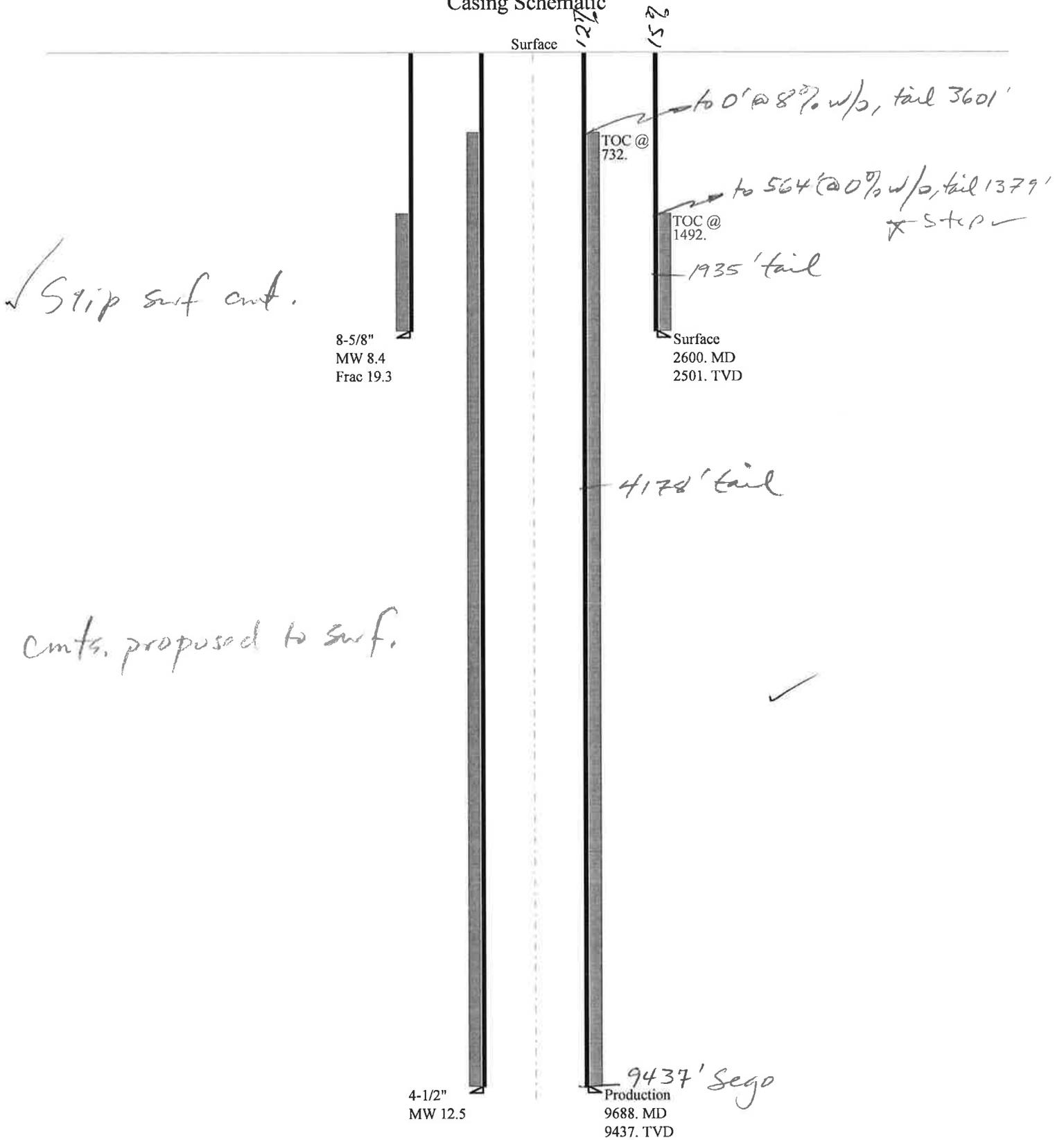
Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

43047522720000 Morgan State 921-36B4CS

Casing Schematic



Well name:	430475227' 20000 Morgan State 921-36B4CS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Surface	Project ID:	43-047-52272
Location:	UINTAH	COUNTY	

Design parameters:**Collapse**

Mud weight: 8.400 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 109 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft
Cement top: 1,492 ft

Burst

Max anticipated surface pressure: 2,201 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,501 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 2,270 ft

Directional Info - Build & Drop

Kick-off point 300 ft
Departure at shoe: 617 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 20 °

Re subsequent strings:

Next setting depth: 9,437 ft
Next mud weight: 12.500 ppg
Next setting BHP: 6,128 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,501 ft
Injection pressure: 2,501 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	2600	8.625	28.00	I-55	LT&C	2501	2600	7.892	102960
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	1092	1880	1.722	2501	3390	1.36	70	348	4.97 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: March 1, 2012
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2501 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Well name:	430475227 20000 Morgan State 921-36B4CS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Production	Project ID:	43-047-52272
Location:	UINTAH COUNTY		

Design parameters:**Collapse**

Mud weight: 12.500 ppg
Internal fluid density: 1.000 ppg

Burst

Max anticipated surface pressure: 4,052 psi
Internal gradient: 0.220 psi/ft
Calculated BHP: 6,128 psi

No backup mud specified.

Minimum design factors:**Collapse:**

Design factor: 1.125

Burst:

Design factor: 1.00

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Tension is based on air weight.
Neutral point: 7,925 ft

Estimated cost: 193,882 (\$)

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 206 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 732 ft

Directional Info - Build & Drop

Kick-off point: 300 ft
Departure at shoe: 1542 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 0 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
2	5000	4.5	11.60	I-80	DQX	4759	5000	3.875	132000
1	4688	4.5	11.60	I-80	LT&C	9437	9688	3.875	61882

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
2	2843	5819	2.047	5099	7780	1.53	109.5	267	2.44 J
1	5637	6360	1.128	6128	7780	1.27	54.3	212	3.91 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: March 1, 2012
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 9437 ft, a mud weight of 12.5 ppg. An internal gradient of .052 psi/ft was used for collapse from TD. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator KERR-MCGEE OIL & GAS ONSHORE, L.P.
Well Name Morgan State 921-36B4CS
API Number 43047522720000 **APD No** 5056 **Field/Unit** NATURAL BUTTES
Location: 1/4,1/4 NENW **Sec** 36 **Tw** 9.0S **Rng** 21.0E 649 FNL 2016 FWL
GPS Coord (UTM) 627843 4428607 **Surface Owner**

Participants

Sheila Wopsock, Charles Chase, Danielle Piernot, Doyle Holmes, (Anadarko). John Slaugh, Mitch Batty, (Timberline). Jim Davis (SITLA). Alex Hansen (DWR). Chris Jensen and David Hackford, (DOGGM).

Regional/Local Setting & Topography

This site is on an existing location, and very little new construction will be necessary.

This location is within the Natural Buttes Unit but this section is not part of the Natural Buttes Unit. It is approximately 14 road miles southeast of Ouray, Utah. The general area is at the head of a long unnamed wash east of Cottonwood Wash. Both washes enter the White River in the same general area, approximately six miles to the north. The area is characterized by rolling hills, which are frequently divided by somewhat gentle draws that drain northerly. This unnamed wash is an ephemeral drainage. No springs, seeps or streams exist in the area. An occasional pond constructed to supply water for cattle and antelope exists. The washes are sometimes rimmed with steep side hills, which have exposed sandstone bedrock cliffs along the rims.

Four new directional wells will be drilled from this location which currently has one well, the Morgan State 7-36. The decision to PA or TA this existing well hasn't been made at this time.

Surface Use Plan

Current Surface Use

Wildlfe Habitat
Grazing
Existing Well Pad

**New Road
Miles**

Well Pad

Src Const Material

Surface Formation

0

Width 352 Length 455

Onsite

UNTA

Ancillary Facilities N

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Prickly pear, wild onion, shadscale, mat saltbrush, Indian ricegrass, halogeton, pepper grass. Principal species present are cheatgrass, black sagebrush, stipa, mesquite grass.

Sheep, antelope, coyote, raptors, small mammals and birds.

Soil Type and Characteristics

rocky sandy clay loam

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required? N

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? Y **Paleo Potential Observed?** N **Cultural Survey Run?** Y **Cultural Resources?** N

Reserve Pit

Site-Specific Factors		Site Ranking
Distance to Groundwater (feet)	>200	0
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)		20
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)		0
Affected Populations		
Presence Nearby Utility Conduits	Not Present	0
Final Score		35

1 Sensitivity Level

Characteristics / Requirements

The reserve pit is planned in an area of cut on the south corner of the location.

Dimensions are 120' x 260' x 12' deep with two feet of freeboard. Kerr McGee has agreed to line this pit with a 30 mil synthetic liner and a layer of felt sub-liner.

Closed Loop Mud Required? N **Liner Required?** Y **Liner Thickness** 30 **Pit Underlayment Required?** Y

Other Observations / Comments

David Hackford
Evaluator

1/11/2012
Date / Time

Application for Permit to Drill Statement of Basis

3/20/2012

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
5056	43047522720000	SITLA	GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		Surface Owner-APD		
Well Name	Morgan State 921-36B4CS		Unit		
Field	NATURAL BUTTES		Type of Work	DRILL	
Location	NENW 36 9S 21E S 649 FNL	2016 FWL	GPS Coord		
	(UTM) 627858E	4428607N			

Geologic Statement of Basis

Kerr McGee proposes to set 2,600' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 1,500'. A search of Division of Water Rights records shows one water well within a 10,000 foot radius of the center of Section 36. The well is listed as 2,640 feet deep and used for drilling water. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed casing and cement should adequately protect. Any usable ground water.

Brad Hill
APD Evaluator

2/7/2012
Date / Time

Surface Statement of Basis

The general area is in the central portion of the Natural Buttes Unit. Within this area is the White River and rugged drainages that drain into it. Topography is varied and frequently dissected by short draws or washes, which become overly steep as they approach the White River breaks or rim. Distance to the White River is six miles. The side drainages are dry except for ephemeral flows. No seeps or springs exist in the area. An occasional pond has been constructed to supply water for livestock and antelope. Vernal, Utah is approximately 42.3 miles to the northwest. Access from Vernal is by following Utah State, Uintah County and oilfield development roads.

Four wells will be directionally drilled from this location. They are the Morgan State 921-36B4CS, Morgan State 921-36C4BS, Morgan State 921-36C4CS and the Morgan State 921-36D1CS. The existing location currently has one well. This well is the Morgan State 7-36. The decision to PA or TA this well has not been made at this time. No drainage concerns exist, and no diversions will be needed. The pad as modified should be stable and sufficient for five wells, and is the best site for a location in the immediate area.

New construction will consist of approximately 75 feet on the south, 230 feet on the west, and 170 feet on the east side of the existing location.

Both the surface and minerals are owned by SITLA. Jim Davis of SITLA and Alex Hansen with DWR were invited by email to the pre-site evaluation. Both were present. Kerr McGee personnel were told to consult with SITLA for reclamation standards including seeding mixes to be used.

Application for Permit to Drill Statement of Basis

3/20/2012

Utah Division of Oil, Gas and Mining

Page 2

David Hackford
Onsite Evaluator

1/11/2012
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Pits	The reserve pit should be located on the south side of the location.

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 12/19/2011

API NO. ASSIGNED: 43047522720000

WELL NAME: Morgan State 921-36B4CS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995)

PHONE NUMBER: 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: NENW 36 090S 210E

Permit Tech Review:

SURFACE: 0649 FNL 2016 FWL

Engineering Review:

BOTTOM: 1145 FNL 1800 FEL

Geology Review:

COUNTY: UINTAH

LATITUDE: 39.99798

LONGITUDE: -109.50221

UTM SURF EASTINGS: 627858.00

NORTHINGS: 4428607.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 3 - State

LEASE NUMBER: ML 22265

PROPOSED PRODUCING FORMATION(S): BLACKHAWK

SURFACE OWNER: 3 - State

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: STATE/FEE - 22013542
- Potash
- Oil Shale 190-5
- Oil Shale 190-3
- Oil Shale 190-13
- Water Permit: 43-8496
- RDCC Review:
- Fee Surface Agreement
- Intent to Commingle

Commingling Approved

LOCATION AND SITING:

- R649-2-3.
- Unit:
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: Cause 173-24
- Effective Date: 10/5/2009
- Siting: 460' Fr Exterior Lease Boundary
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 3 - Commingling - ddoucet
 5 - Statement of Basis - bhill
 15 - Directional - dmason
 17 - Oil Shale 190-5(b) - dmason
 25 - Surface Casing - hmacdonald



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Morgan State 921-36B4CS
API Well Number: 43047522720000
Lease Number: ML 22265
Surface Owner: STATE
Approval Date: 3/20/2012

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-24. The expected producing formation or pool is the BLACKHAWK Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingle:

In accordance with Board Cause No. 173-24, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil

shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Surface casing shall be cemented to the surface.

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan - contact Dustin Doucet
- Significant plug back of the well - contact Dustin Doucet
- Plug and abandonment of the well - contact Dustin Doucet

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels
OR
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
at <http://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing - contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program
- contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or

plugging

Approved By:

A handwritten signature in black ink, appearing to read "J. Rogers", written in a cursive style.

For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22265	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
7. UNIT or CA AGREEMENT NAME:	
8. WELL NAME and NUMBER: Morgan State 921-36B4CS	
9. API NUMBER: 43047522720000	
9. FIELD and POOL or WILDCAT: MATHEW BUTTES	
COUNTY: Uintah	
STATE: UTAH	

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: Morgan State 921-36B4CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047522720000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	9. FIELD and POOL or WILDCAT: MATHEW BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0649 FNL 2016 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 36 Township: 09.0S Range: 21.0E Meridian: S	PHONE NUMBER: 720 929-6515

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 5/20/2012	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: ACTS/ Pit Refurb

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee Oil & Gas Onshore, LP is requesting to refurb the existing pit on this multi-well pad for completion operations. The refurb pit will be relined per the requirements in the COA of the APD. Upon completion of the wells on this pad, Kerr-McGee is also requesting to utilize this pit as an ACTS staging pit to be utilized for other completion operations in the area. The trucks will unload water into these tanks before the water is placed into the refurbished pit. The purpose of the frac tanks is to collect any hydro-carbons that may have been associated with the other completion operations before releasing into the pit. We plan to keep this pit open for 1 year. During this time the surrounding well location completion fluids will be recycled in this pit and utilized for other frac jobs in the surrounding sections. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: May 29, 2012

By: 

NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 5/22/2012	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43047522720000

A synthetic liner with a minimum thickness of 30 mils with a felt subliner shall be properly installed and maintained in the pit.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22265	
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
1. TYPE OF WELL Gas Well		7. UNIT or CA AGREEMENT NAME:	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		8. WELL NAME and NUMBER: Morgan State 921-36B4CS	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		9. API NUMBER: 43047522720000	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0649 FNL 2016 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 36 Township: 09.0S Range: 21.0E Meridian: S		9. FIELD and POOL or WILDCAT: MORGAN STATE LATERAL BUTTES	
		COUNTY: UINTAH	
		STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 6/27/2012 <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
MIRU TRIPLE A BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 CONDUCTOR PIPE. CMT W/28 SX READY MIX. SPUD WELL LOCATION ON 6/27/2012 AT 8:00 HRS.			
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY July 02, 2012			
NAME (PLEASE PRINT) Cara Mahler	PHONE NUMBER 720 929-6029	TITLE Regulatory Analyst I	
SIGNATURE N/A		DATE 6/29/2012	

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
Submitted By CARA MAHLER Phone Number 720.929.6029
Well Name/Number MORGAN STATE 921-36B4CS
Qtr/Qtr NENW Section 36 Township 9S Range 21E
Lease Serial Number ML 22265
API Number 4304752272

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 06/27/2012 13:00 HRS AM PM

Casing – Please report time casing run starts, not cementing times.

- Surface Casing
- Intermediate Casing
- Production Casing
- Liner
- Other

Date/Time 07/17/2012 08:00 HRS AM PM

BOPE

- Initial BOPE test at surface casing point
- BOPE test at intermediate casing point
- 30 day BOPE test
- Other

RECEIVED
JUN 27 2012
DIV. OF OIL, GAS & MINING

Date/Time _____ AM PM

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT KENNY GATHINGS AT

435.828.0986 OR LOVEL YOUNG AT 435.781.7051

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR MCGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
 Address: P.O. Box 173779
city DENVER
state CO zip 80217 Phone Number: (720) 929-6029

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752272	MORGAN STATE 921-36B4CS		NENW	36	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	18601	6/27/2012			7/18/2012	
Comments: MIRU BUCKET RIG. MVRD SPUD WELL LOCATION ON 6/27/2012 AT 8:00 HRS. BHL: hwnr							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752273	MORGAN STATE 921-36C4BS		NENW	36	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	18602	6/27/2012			7/18/2012	
Comments: MIRU BUCKET RIG. MVRD SPUD WELL LOCATION ON 6/27/2012 AT 11:30 HRS. BHL: nenw							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752274	MORGAN STATE 921-36C4CS		NENW	36	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	18603	6/27/2012			7/18/2012	
Comments: MIRU BUCKET RIG. MVRD SPUD WELL LOCATION ON 6/27/2012 AT 14:30 HRS. BHL: nenw							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

RECEIVED

JUL 09 2012

Div. of Oil, Gas & Mining

Cara Mahler

Name (Please Print)

Signature

Title

6/29/2012

Date

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22265	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
7. UNIT or CA AGREEMENT NAME:	
8. WELL NAME and NUMBER: Morgan State 921-36B4CS	
9. API NUMBER: 43047522720000	
9. FIELD and POOL or WILDCAT: NATURAL BUTTES	
COUNTY: UINTAH	
STATE: UTAH	

SUNDRY NOTICES AND REPORTS ON WELLS
 Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL Gas Well
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779
PHONE NUMBER: 720 929-6511
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0649 FNL 2016 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 36 Township: 09.0S Range: 21.0E Meridian: S

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 8/2/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 No activity for the month of July 2012. Surface casing set at 2,775'.

**Accepted by the
 Utah Division of
 Oil, Gas and Mining**
FOR RECORD ONLY
 August 02, 2012

NAME (PLEASE PRINT) Cara Mahler	PHONE NUMBER 720 929-6029	TITLE Regulatory Analyst I
SIGNATURE N/A	DATE 8/2/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22265
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: MORGAN STATE 921-36B4CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047522720000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6511 9. FIELD and POOL or WILDCAT: MORGAN STATE BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0649 FNL 2016 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 36 Township: 09.0S Range: 21.0E Meridian: S	COUNTY: UINTAH STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 9/4/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

No Activity for the month of August 2012. Well TD at 2,775

**Accepted by the
 Utah Division of
 Oil, Gas and Mining
 FOR RECORD ONLY
 September 05, 2012**

NAME (PLEASE PRINT) Lindsey Frazier	PHONE NUMBER 720 929-6857	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 9/4/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22265	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
7. UNIT or CA AGREEMENT NAME:	
8. WELL NAME and NUMBER: MORGAN STATE 921-36B4CS	
9. API NUMBER: 43047522720000	
9. FIELD and POOL or WILDCAT: MORGAN STATE BUTTES	
COUNTY: UINTAH	
STATE: UTAH	

SUNDRY NOTICES AND REPORTS ON WELLS
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1. TYPE OF WELL Gas Well	1. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	PHONE NUMBER: 720 929-6511
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0649 FNL 2016 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 36 Township: 09.0S Range: 21.0E Meridian: S	

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/2/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 No Activity for the month of September 2012. Well TD at 2,775.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 October 03, 2012

NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regularatory Analyst
SIGNATURE N/A	DATE 10/2/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5.LEASE DESIGNATION AND SERIAL NUMBER: ML 22265
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: MORGAN STATE 921-36B4CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047522720000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6511 9. FIELD and POOL or WILDCAT: MORGAN STATE BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0649 FNL 2016 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 36 Township: 09.0S Range: 21.0E Meridian: S	COUNTY: UINTAH STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 11/5/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

No Activity for the month of October 2012. Well TD at 2,775.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 November 05, 2012

NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 11/5/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5.LEASE DESIGNATION AND SERIAL NUMBER: ML 22265
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: MORGAN STATE 921-36B4CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047522720000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6511 9. FIELD and POOL or WILDCAT: MATHEW BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0649 FNL 2016 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 36 Township: 09.0S Range: 21.0E Meridian: S	COUNTY: UINTAH STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 12/3/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

No Activity for the month of November 2012. Well TD at 2,792.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 December 03, 2012

NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 12/3/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5.LEASE DESIGNATION AND SERIAL NUMBER: ML 22265
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: MORGAN STATE 921-36B4CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047522720000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6511 9. FIELD and POOL or WILDCAT: MORGAN STATE LATERAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0649 FNL 2016 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 36 Township: 09.0S Range: 21.0E Meridian: S	COUNTY: UINTAH STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 1/2/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

No Activity for the month of December 2012. Well TD at 2,792

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 January 03, 2013

NAME (PLEASE PRINT) Lindsey Frazier	PHONE NUMBER 720 929-6857	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 1/2/2013	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22265	
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
1. TYPE OF WELL Gas Well		7. UNIT or CA AGREEMENT NAME:	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		8. WELL NAME and NUMBER: MORGAN STATE 921-36B4CS	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		9. API NUMBER: 43047522720000	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0649 FNL 2016 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 36 Township: 09.0S Range: 21.0E Meridian: S		9. FIELD and POOL or WILDCAT: MATERIAL BUTTES	
		COUNTY: UINTAH	
		STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 1/8/2013 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: ACTS PIT
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
FINISHED DRILLING TO 10,830' ON 1/4/2013. CEMENTED PRODUCTION CASING. RELEASED H&P 298 RIG ON 1/8/2013. DETAILS OF CASING AND CEMENT WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES. THE PIT ON THIS LOCATION WILL BE REFURBISHED AND UTILIZED AS PART OF THE ACTS SYSTEM.			
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 17, 2013			
NAME (PLEASE PRINT) Lindsey Frazier	PHONE NUMBER 720 929-6857	TITLE Regulatory Analyst II	
SIGNATURE N/A	DATE 1/10/2013		

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5.LEASE DESIGNATION AND SERIAL NUMBER: ML 22265
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: MORGAN STATE 921-36B4CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047522720000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6511 9. FIELD and POOL or WILDCAT: MORGAN STATE BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0649 FNL 2016 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 36 Township: 09.0S Range: 21.0E Meridian: S	COUNTY: UINTAH STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 3/4/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Started completing the well. Well TD at 10,830

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 March 04, 2013

NAME (PLEASE PRINT) Laura Abrams	PHONE NUMBER 720 929-6356	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 3/4/2013	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22265
1. TYPE OF WELL Gas Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	8. WELL NAME and NUMBER: MORGAN STATE 921-36B4CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0649 FNL 2016 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 36 Township: 09.0S Range: 21.0E Meridian: S	9. API NUMBER: 43047522720000
5. PHONE NUMBER: 720 929-6511	9. FIELD and POOL or WILDCAT: MOUNTAIN BUTTES
COUNTY: Uintah	STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 3/12/2013	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="casing patch"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Due to gas migration, the operator respectfully requests authorization to set a casing patch over the previously set DV tool on the above captioned well. The procedure is as follows: DV TOOL set at 4243' MIRU RIG, NDWH. NUBOPE. MIRU WIRE LINE TRUCK. P/U 4 1/2" CBP & RIH. SET CBP @ 4263'. POOH RDMO WIRELINE. P/U 3 7/8" MILL RIH ON 2 3/8" TUBING & MAKE CLEAN OUT RUN TO 4263' POOH L/D C/O TOOLS. P/U SALTEL 4 1/2" SLIMLINE CASING PATCH (20') RIH. TAG CBP @ 4263', P/U 10'. SET PATCH W/ 10' ABOVE DV TOOL & 10' BELOW DV TOOL. POOH. MAKE GAUGE RING RUN THROUGH PATCH TO 4263'. POOH. PSI TST CSG PATCH TO MAX FRAC PSI.

Approved by the
 Utah Division of
 Oil, Gas and Mining

Date: March 12, 2013
 By: *Derek Duff*

NAME (PLEASE PRINT) Laura Abrams	PHONE NUMBER 720 929-6356	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 3/12/2013	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22265	
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
1. TYPE OF WELL Gas Well		7. UNIT or CA AGREEMENT NAME:	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		8. WELL NAME and NUMBER: MORGAN STATE 921-36B4CS	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		9. API NUMBER: 43047522720000	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0649 FNL 2016 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 36 Township: 09.0S Range: 21.0E Meridian: S		9. FIELD and POOL or WILDCAT: MATERIAL BUTTES	
		COUNTY: UINTAH	
		STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 4/3/2013	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
Started completing the well. Well TD at 10,830			
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY April 03, 2013			
NAME (PLEASE PRINT) Teena Paulo		PHONE NUMBER 720 929-6236	TITLE Staff Regulatory Specialist
SIGNATURE N/A		DATE 4/3/2013	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22265	
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
1. TYPE OF WELL Gas Well		7. UNIT or CA AGREEMENT NAME:	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		8. WELL NAME and NUMBER: MORGAN STATE 921-36B4CS	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		9. API NUMBER: 43047522720000	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0649 FNL 2016 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 36 Township: 09.0S Range: 21.0E Meridian: S		9. FIELD and POOL or WILDCAT: MATERIAL BUTTES	
		COUNTY: UINTAH	
		STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 4/12/2013	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
The subject well was brought onto production on 4/8/2013.			
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY April 19, 2013			
NAME (PLEASE PRINT) Teena Paulo	PHONE NUMBER 720 929-6236	TITLE Staff Regulatory Specialist	
SIGNATURE N/A		DATE 4/12/2013	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME	
b. TYPE OF WORK: NEW WELL <input checked="" type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____		8. WELL NAME and NUMBER: MORGAN STATE 921-36B4CS	
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE, L.P.		9. API NUMBER: 4304752272	
3. ADDRESS OF OPERATOR: P.O.BOX 173779 CITY DENVER STATE CO ZIP 80217		PHONE NUMBER: (720) 929-6000	
10 FIELD AND POOL, OR WILDCAT NATURAL BUTTES		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENW 36 9S 21E S	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: NENW 649 FNL 2016 FWL S36,T9S,R21E AT TOP PRODUCING INTERVAL REPORTED BELOW: NWNE 1142 FNL 1818 FEL S36,T9S,R21E AT TOTAL DEPTH: NWNE 1214 FNL 1797 FEL S36,T9S,R21E		12. COUNTY UINTAH	
14. DATE SPUDDED: 6/27/2012		15. DATE T.D. REACHED: 1/4/2013	
16. DATE COMPLETED: 4/8/2013		17. ELEVATIONS (DF, RKB, RT, GL): 5013 RKB	
18. TOTAL DEPTH: MD 10,830 TVD 10,570		19. PLUG BACK T.D.: MD 10,778 TVD 10,518	
20. IF MULTIPLE COMPLETIONS, HOW MANY? *		21. DEPTH BRIDGE MD _____ TVD _____	
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) BHV-SD/DSN/ACTR-CBL/GR/CCL/TEMP		23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (Submit copy)	

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#	0	40		28			
11"	8 5/8" IJ-55	28#	0	2,777		1,125		0	
7 7/8"	4 1/2" P-110	11.6#	0	10,824		1,905		690	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	10,292							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS	
(A) MESAVERDE	7,599	10,637			7,599 10,637	0.36	231	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>

27. PERFORATION RECORD

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7599-10,637	PUMP 14,159 BBLs SLICK H2O & 289,118 LBS 30/50 OTTAWA SAND 10 STAGES

29. ENCLOSED ATTACHMENTS:

- | | | | |
|---|--|---------------------------------------|--|
| <input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS | <input type="checkbox"/> GEOLOGIC REPORT | <input type="checkbox"/> DST REPORT | <input checked="" type="checkbox"/> DIRECTIONAL SURVEY |
| <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION | <input type="checkbox"/> CORE ANALYSIS | <input type="checkbox"/> OTHER: _____ | |

30. WELL STATUS:

PROD

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 4/8/2013		TEST DATE: 4/13/2013		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 2,053	WATER – BBL: 0	PROD. METHOD: FLOWING
CHOKE SIZE: 20/64	TBG. PRESS. 1,694	CSG. PRESS. 2,537	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 2,053	WATER – BBL: 0	INTERVAL STATUS: PROD

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

SOLD

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

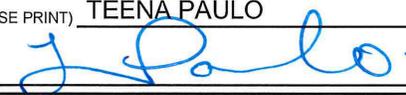
34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				GREEN RIVER	1,404
				BIRD'S NEST	1,814
				MAHOGANY	2,266
				WASATCH	4,885
				MESAVERDE	7,653

35. ADDITIONAL REMARKS (Include plugging procedure)

The first 210' of the surface hole was drilled with a 12 ¼" bit. The remainder of surface hole was drilled with an 11" bit. A DV tool was placed in the well from 4258 feet - 4261 feet. Due to gas migration, a casing patch was placed over the DV tool. DQX csg was run from surface to 4258 ft.; LTC csg was run from 4258 ft. to 10,824 ft. Attached is the chronological well history, perforation report & final survey.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) TEENA PAULO TITLE STAFF REGULATORY SPECIALIST
 SIGNATURE  DATE 5/1/2013

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining Phone: 801-538-5340
 1594 West North Temple, Suite 1210
 Box 145801 Fax: 801-359-3940
 Salt Lake City, Utah 84114-5801

US ROCKIES REGION
Operation Summary Report

Well: MORGAN STATE 921-36B4CS RED		Spud Date: 7/6/2012	
Project: UTAH-UINTAH		Site: MORGAN STATE 921-36C PAD	Rig Name No: H&P 298/298, H&P 298/298, CAPSTAR 310/310
Event: DRILLING		Start Date: 6/25/2012	End Date: 1/8/2013
Active Datum: RKB @5,013.00usft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/36/0/0/26/PM/N/649/W/0/2016/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
7/6/2012	0:00 - 6:00	6.00	MIRU	01	A	P		MOVE AIR EQUIPMENT NOV CLOSED LOOP SYSTEM, WAIT ON TRUCKS AT 0600AM
	6:00 - 12:00	6.00	MIRU	01	A	P		MOVE REMAINDER OF RIG 4 MILES TO MORGAN STATE 921-36B4CS, RIG UP
	12:00 - 17:30	5.50	PRPSPD	01	B	P		WELD ON ROTATING HEAD, INSTALL FLOW LINE. CLEAN OUT NOV CLOSED LOOP TANKS, INSTALL NOV SYSTEM. BUILD CONTAINMENT BURMS FOR LOCATION
	17:30 - 19:30	2.00	DRLSUR	02	D	P		SPUD SPUD DRILL 12.25" SURFACE HOLE F/ 49'-210' ROP= 161' @ 81 FPH WOB= 14/22K RPM= 55/105 SPP=720/500 GPM= 595 TRQ= 2600/1900 PU/SO/ROT = 32/28/30 NO LOSSES HOLE IN GOOD SHAPE
	19:30 - 21:30	2.00	DRLSUR	06	A	P		TRIP OUT OF HOLE, LAY DOWN BIT. PICK UP 11.00" BIT AND DIRECTIONAL TOOLS, SCRIBE, TRIP IN HOLE
	21:30 - 0:00	2.50	DRLSUR	02	D	P		DRILL 11.00" SURFACE HOLE F/ 210'- ROP= 227' @ 113.5 FPH WOB= 22/30K RPM= 55/105 ON BTTM PUMP= 850 PSI OFF BTTM PUMP= 590 PSI GPM= 576 TRQ= 3100/2200 UP/DWN/ROT= 52/43/46 NO LOSSES HOLE IN GOOD SHAPE
7/7/2012	0:00 - 8:00	8.00	DRLSUR	02	D	P		DRILL 11.00" SURFACE HOLE F/ 450'-1250' ROP= 800' @ 100' FPH WOB= 22/30K RPM= 55/105 ON BTTM PUMP= 1220 PSI OFF BTTM PUMP= 760 PSI GPM= 576 TRQ= 2700/700 UP/DWN/ROT= 74/50/70 NO LOSSES HOLE IN GOOD SHAPE

US ROCKIES REGION								
Operation Summary Report								
Well: MORGAN STATE 921-36B4CS RED					Spud Date: 7/6/2012			
Project: UTAH-UINTAH			Site: MORGAN STATE 921-36C PAD			Rig Name No: H&P 298/298, H&P 298/298, CAPSTAR 310/310		
Event: DRILLING			Start Date: 6/25/2012		End Date: 1/8/2013			
Active Datum: RKB @5,013.00usft (above Mean Sea Level)			UWI: NE/NW0/9/S/21/E/36/0/0/26/PM/N/649/W/0/2016/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	8:00 - 16:00	8.00	DRLSUR	02	D	P		DRILL 11.00" SURFACE HOLE F/ 1250'-1901' ROP= 651' @ 81' FPH WOB= 22/30K RPM= 55/105 ON BTTM PUMP= 1050 PSI OFF BTTM PUMP=680 PSI GPM= 576 TRQ= 3150/850 UP/DWN/ROT= 90/78/83
	16:00 - 0:00	8.00	DRLSUR	02	D	P		LOSS CIRCULATION 1690', ON AIR AT 500 CFM DRILL 11.00" SURFACE HOLE F/ 1901'-2360 ROP= 459' @ 57' FPH WOB= 22/30K RPM= 55/105 ON BTTM PUMP= 1120 PSI OFF BTTM PUMP= 870 PSI GPM= 576 TRQ= 3200/2900 UP/DWN/ROT= 108/85/95
7/8/2012	0:00 - 5:30	5.50	DRLSUR	02	D	P		ON AIR AT 1200 CFM DRILL 11.00" SURFACE HOLE F/-2360'-2775' ROP= 459' @ 57' FPH WOB= 22/30K RPM= 55/105 ON BTTM PUMP= 1120 PSI OFF BTTM PUMP= 870 PSI GPM= 576 TRQ= 3200/2900 UP/DWN/ROT= 108/85/95
	5:30 - 6:00	0.50	DRLSUR	05	C	P		ON AIR AT 1200 CFM CIRCULATE AND CONDITION
	6:00 - 9:00	3.00	DRLSUR	06	D	P		PULL OUT OF HOLE
	9:00 - 10:30	1.50	DRLSUR	06	D	P		LAY DOWN BIT AND DIRECTIONAL TOOLS
	10:30 - 14:30	4.00	CSGSUR	12	C	P		PJSM /// RUN 62 JT'S, 8-5/8", 28#, J-55, LT&C CSG /// SHOE SET @ 2751' /// BAFFLE @ 2705'
	14:30 - 15:00	0.50	CSGSUR	12	B	P		RIG UP CEMENTERS
	15:00 - 0:00	9.00	CSGSUR	12	E	P		PJSM WITH PRO PETRO CMT CREW /// PUMP 155 BBL'S WATER AHEAD FOLLOWED BY 20 BBL GEL WATER FLUSH /// LEAD = 250sx CLASS G CMT @ 11.0 WT & 3.82 YIELD /// TAIL = 200sx CLASS G CMT @ 15.8 WT & 1.15 YIELD /// DROP PLUG & DISPLACE W/ 165 BBL'S WATER /// PLUG DN @ 16:39 06/08/2012 /// BUMP PLUG W/ 650 PSI /// FINAL LIFT = 350 PSI /// CHECK FLOATS - FLOAT HELD NO CMT TO SURFACE, CUT OFF WELL HEAD TOP OUTS W/ 675 sx TOTAL CLASS G CMT & 15.8 WT & 1.15 YIELD /// NO CMT TO SURFACE
12/3/2012	0:00 - 6:00	6.00	RDMO	01	E	P		RELEASE RIG AT 0000, SKID TO MORGAN STATE 921-36C4BS, WELL 2 OF 4 PREP RIG FOR RIG MOVE

US ROCKIES REGION
Operation Summary Report

Well: MORGAN STATE 921-36B4CS RED		Spud Date: 7/6/2012	
Project: UTAH-UINTAH		Site: MORGAN STATE 921-36C PAD	Rig Name No: H&P 298/298, H&P 298/298, CAPSTAR 310/310
Event: DRILLING		Start Date: 6/25/2012	End Date: 1/8/2013
Active Datum: RKB @5,013.00usft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/36/0/0/26/PM/N/649/W/0/2016/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 18:00	12.00	MIRU3	01	A	P		HSM / LOAD OUT RIG WITH JONES TRUCKING 32 TRUCKS - 1 FORKLIFT - 13 PIOLT CARS - 43 MEN, H&P 12 MEN WITH EXTRA LABOR OF 4 MEN, RIG 80% OFF LOCATION, 0% RIGGED UP
	18:00 - 0:00	6.00	MIRU3	21	C	P		WAIT ON DAYLIGHT
12/4/2012	0:00 - 6:00	6.00	MIRU3	21	C	P		WAIT ON DAYLIGHT
	6:00 - 18:00	12.00	MIRU3	01	A	P		HSM / LOAD OUT RIG WITH JONES TRUCKING 15 TRUCKS - 1 FORKLIFT - 5 PIOLT CARS - 18 MEN, H&P 12 MEN WITH EXTRA LABOR OF 4 MEN, RIG 100% OFF LOCATION, AND LOCATION CLEANED, SET IN & RIG UP BACK YARD ,SKID RAILS , DRAWWORKS,,FLOWLINES / RIG 30% RIGGED UP
	18:00 - 0:00	6.00	MIRU3	21	C	P		WAIT ON DAYLIGHT
12/5/2012	0:00 - 6:00	6.00	MIRU3	21	C	P		WAIT ON DAYLIGHT TO CONTINUE RIG UP
	6:00 - 18:00	12.00	MIRU3	01	B	P		MIRU / 100% OFF OLD LOCATION / 85% RIGGED UP / JONES TRUCKING 12 TRUCKS / 1 FORK LIFT / 1 CRANE / 1 PILOT CAR / 21 PERSONNEL / H&P 16 PEOPLE
	18:00 - 0:00	6.00	MIRU3	21	C	P		WAIT ON DAYLIGHT TO CONTINUE RIG UP
12/6/2012	0:00 - 6:00	6.00	MIRU3	21	C	P		WAIT ON DAYLIGHT TO CONTINUE RIG UP
	6:00 - 0:00	18.00	MIRU3	01	B	P		MIRU / 95% RIGGED UP / JONES TRUCKING 1 TRUCK / 1 FORK LIFT / 3 PERSONNEL / H&P 16 PEOPLE / DERRICK IN AIR @ 08:15 HRS / JONES OFF LOCATION @ 10:00/ CONTINUE TO RIG UP ROTARY TOOLS
12/7/2012	0:00 - 6:00	6.00	MIRU3	01	B	P		INSTALL RIG FLOOR TARPS & FLARE LINES
	6:00 - 11:00	5.00	PRPSPD	14	A	P		NIPPLE UP BOP'S & EQUIPMENT
	11:00 - 21:00	10.00	PRPSPD	14	A	P		NIPPLE UP MI SWACO PRESSURE CONTROL EQUIPMENT & SMITH ROTAING ASSY
	21:00 - 0:00	3.00	PRPSPD	15	A	P		RIG UP TEST ASSY & ATTEMPT TO PRESSURE TEST CASING, NO TEST , TEST FLOOR VALVES
12/8/2012	0:00 - 4:30	4.50	PRPSPD	15	A	P		PRESSURE TEST BOP'S & EQUIPMENT AS PER PROGRAM 250/5000 (IBOP FAILED TEST)
	4:30 - 5:30	1.00	PRPSPD	15	A	P		PRESSURE TEST MI SWACO PRESSURE CONTROL EQUIPMENT
	5:30 - 8:00	2.50	PRPSPD	15	A	P		ATTEMPT TO PRESSURE TEST CASING / NO TEST
	8:00 - 14:00	6.00	PRPSPD	06	A	X		PICK UP MILL TOOTH BIT & HWT DRILL PIPE CONTINUE TO PICK UP DRILL PIPE TO 2,670' TAG CEMENT XXX CASING LEAKING XXX
	14:00 - 15:00	1.00	PRPSPD	02	F	X		DRILL CEMENT FROM 2,670' TO 2,720' - 2' ABOVE FLOAT COLLAR ,PUMP HI VIS SWEEP/ CIRC HOLE CLEAN - NO RUBBER BACK XXX CASING LEAKING XXX
	15:00 - 16:00	1.00	PRPSPD	06	A	X		TOOH TO PICK UP WEATHERFORD 32a PACKER XXX CASING LEAKING XXX

US ROCKIES REGION
Operation Summary Report

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Project: UTAH-UINTAH		Site: MORGAN STATE 921-36C PAD	Rig Name No: H&P 298/298, H&P 298/298, CAPSTAR 310/310
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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	16:00 - 0:00	8.00	PRPSPD	06	A	X		TRIP IN HOLE WITH WEATHERFORD 32a PACKER SET PACKER @ 2,715' - 7' ABOVE FLOAT COLLAR - TEST CASING TO 1500 PSI PRESSURE DROP 200 PSI IN 5 MINS CONTINUE TO WORK UP HOLE 30' TO 40' @ A TIME SETTING PACKER & TESTING TO FIND LEAK IN CASING - CONTINUE TO CHECK & DOUBLE CHECK SURFACE EQUIPMENT FOR LEAKS - NO LEAKS - CASING LEAKING NO TEST FROM 2,715' TO 2300'
12/9/2012	0:00 - 1:30	1.50	PRPSPD	22	J	X		XXX CASING LEAKING XXX
	1:30 - 3:00	1.50	MIRU3	01	C	X		CONTINUE TO PULL UP 30 TO 40' TESTING CASING WITH WEATHERFORD 32a PACKER . FIND LEAK IN CASING BETWEEN 2,248' & 2,153' / SURFACE JTS # 13 - 14 / COLLAR DEPTHS RKB 2,234' & 2,190' XXX LEAK IN CASING XXX
	3:00 - 3:30	0.50	MIRU3	01	C	X		TOOH WITH WEATHERFORD 32a PACKER LAY DOWN SAME
	3:30 - 5:30	2.00	MIRU3	01	C	X		XXX LEAK IN CASING XXX WINTERIZE RIG BLOW DOWN TDS & CHOKE MANIFOLD & KILL LINES
	5:30 - 6:00	0.50	MIRU3	14	A	X		XXX LEAK IN CASING XXX CHANGE OUT IBOP & MEANWHILE PREPARE RIG FOR SKID
12/29/2012	4:00 - 12:00	8.00	MIRU3	01	C	P		XXX LEAK IN CASING XXX NIPPLE DOWN BOP'S & EQUIPMENT RELEASE RIG @ 06:00 12/9/12
	12:00 - 16:00	4.00	PRPSPD	14	A	P		SKID RIG 30' BACK TO WELL#1 MS 921-36D4CS,ALIGN OVER WELL
	16:00 - 19:30	3.50	PRPSPD	15	A	P		CT JSA NIPPLE UP BOP,RIG UP AFTER SKID
	19:30 - 21:30	2.00	PRPSPD	15	A	P		PRESSURE TEST H&P EQUIP BLIND RAMS, PIPE RAMS , FLOOR VALVE, KILL LINES & KILL LINE VALVES, BOP WING VALVES , HCR VALVE + CHOKE LINE; INNER AND OUTER CHOKE VALVES & MANIFOLD TO 250 PSI LOW @ 5 MINUTES + 5000 PSI HIGH @ 10 MINUTES / TEST ANNULAR TO 250 PSI LOW @ 5 MINUTES + 2,500 PSI HIGH
	21:30 - 22:00	0.50	PRPSPD	14	B	P		INSTALL NEW SMITH BEARING ASSY,TEST SWACO EQUIP TO 1,000 PSI
	22:00 - 0:00	2.00	PRPSPD	06	A	P		INSTALL WEAR BUSHING
12/30/2012	0:00 - 0:30	0.50	PRPSPD	06	A	P		PICK UP MUD MOTOR & BIT, DIRECTIONAL TOOLS INSTALL MWD & PONY SUB
	0:30 - 3:00	2.50	PRPSPD	06	A	P		PU MUD MTR ,BIT & DIR TOOLS SURFACE TEST SAME
	3:00 - 4:00	1.00	PRPSPD	07	B	P		TRIP IN HOLE W/ HWDP ,10 STANDS DP
	4:00 - 4:30	0.50	PRPSPD	06	A	P		CHECK DERRICK FOR LEVEL, PRE SPUD INSPECTION INSTALL ROTATING RUBBER
	4:30 - 6:00	1.50	DRLPRC	02	F	P		TRIP IN HOLE TAG@2,698' DRILL FLOAT TRAC F/ 2,698, BAFFLE @ 2,730, SHOE 2,775 OPEN HOLE TO 2,792

US ROCKIES REGION								
Operation Summary Report								
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Project: UTAH-UINTAH			Site: MORGAN STATE 921-36C PAD			Rig Name No: H&P 298/298, H&P 298/298, CAPSTAR 310/310		
Event: DRILLING			Start Date: 6/25/2012		End Date: 1/8/2013			
Active Datum: RKB @5,013.00usft (above Mean Sea Level)				UWI: NE/NW0/9/S/21/E/36/0/0/26/PM/N/649/W/0/2016/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 12:00	6.00	DRLPRC	02	B	P		DRILL /SLIDE / SURVEY/ F/ 2,792-3,665 = 873' @145.5 FPH WOB 18,000-24,000 TOP DRIVE RPM 40-75 MUD MOTOR RPM 90 PUMPS 126 SPM= 567GPM PUMP PRESSURE ON/OFF BTM 1,750 /1,480 TORQUE ON/OFF BTM 8,000/ 6,000 PICK UP WT 108,000 SLACK OFF WT 96,000 ROT WT 101,000 SLIDE 139' IN 90 MIN 15.9 % OF FOOTAGE DRILLED, 25 %OF HRS DRILLED 110 BBLs FLUID LOST MUD WT 8.6 VIS 27, PUMPING 5-10 BBL SWEEPS EVERY STAND,W/ 3-4% CAL CARB & ANCO FIBER NOV-D WATER SWACO OFF LINE
	12:00 - 12:30	0.50	DRLPRC	07	A	P		DAILY RIG SERVICE
	12:30 - 0:00	11.50	DRLPRC	02	B	P		DRILL /SLIDE / SURVEY/ F/ 3,665-5,083= 1,418' @123.3 FPH WOB 20,000-26,000 TOP DRIVE RPM 40-75 MUD MOTOR RPM 90 PUMPS 122 SPM= 550GPM PUMP PRESSURE ON/OFF BTM 2,450 /2,000 TORQUE ON/OFF BTM 9,000/ 5,000 PICK UP WT 150,000 SLACK OFF WT 100,000 ROT WT 117,000 SLIDE 139' IN 90 MIN 15.9 % OF FOOTAGE DRILLED, 25 %OF HRS DRILLED 200 BBLs FLUID LOST MUD UP 4,800' MUD WT 9.2 VIS 34 PUMPING 5-10 BBL SWEEPS EVERY STAND,W/ 3-4% CAL CARB & ANCO FIBER NOV-D WATER SWACO OFF LINE

US ROCKIES REGION									
Operation Summary Report									
Well: MORGAN STATE 921-36B4CS RED					Spud Date: 7/6/2012				
Project: UTAH-UINTAH			Site: MORGAN STATE 921-36C PAD			Rig Name No: H&P 298/298, H&P 298/298, CAPSTAR 310/310			
Event: DRILLING			Start Date: 6/25/2012		End Date: 1/8/2013				
Active Datum: RKB @5,013.00usft (above Mean Sea Level)				UWI: NE/NW/0/9/S/21/E/36/0/0/26/PM/N/649/W/0/2016/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation	
12/31/2012	0:00 - 6:00	6.00	DRLPRV	02	B	P		DRILL /SLIDE / SURVEY/ F/ 5,083-5,700 = 617" @102.8 FPH WOB 18,000-26,000 TOP DRIVE RPM 40-75 MUD MOTOR RPM 91 PUMPS 130 SPM= 585 GPM PUMP PRESSURE ON/OFF BTM 2450 /2050 TORQUE ON/OFF BTM 11,000/ 9,000 PICK UP WT 170,000 SLACK OFF WT 110,000 ROT WT 128,000 SLIDE 295' IN 190 MIN 20.7 % OF FOOTAGE DRILLED, 28.7 %OF HRS DRILLED 45 BBLs FLUID LOST MUD WT 9.2 VIS 35, PUMPING 10 BBL SWEEPS EVERY STAND,W/ 5% CAL CARB & ANCO FIBER NOV-CONVENTIONAL SWACO OFF LINE	
	6:00 - 14:30	8.50	DRLPRV	02	B	P		DRILL /SLIDE / SURVEY/ F/ 5,700-6,502 = 802" @94.3 FPH WOB 18,000-26,000 TOP DRIVE RPM 40-75 MUD MOTOR RPM 91 PUMPS 110- 130 SPM= 475-585 GPM PUMP PRESSURE ON/OFF BTM 2,430 /2,120 TORQUE ON/OFF BTM 12,000/ 10,000 PICK UP WT 170,000 SLACK OFF WT 126,000 ROT WT 144,000 SLIDE 67' IN 70 MIN 8.3 % OF FOOTAGE DRILLED, 13.7 %OF HRS DRILLED LOST 150 BBLs @ 5,838 580 BBLs TOTAL FLUID LOST MUD WT 9.4 VIS 35, PUMPING 10 BBL SWEEPS EVERY STAND,W/ 5% CAL CARB & ANCO FIBER MIXING LCM TO CONTROL LOSSES NOV-PART D-WATER SWACO OFF LINE	
	14:30 - 15:00	0.50	DRLPRV	07	A	P		RIG SERVICE	

US ROCKIES REGION

Operation Summary Report

Well: MORGAN STATE 921-36B4CS RED			Spud Date: 7/6/2012		
Project: UTAH-UINTAH		Site: MORGAN STATE 921-36C PAD		Rig Name No: H&P 298/298, H&P 298/298, CAPSTAR 310/310	
Event: DRILLING		Start Date: 6/25/2012		End Date: 1/8/2013	
Active Datum: RKB @5,013.00usft (above Mean Sea Level)			UWI: NE/NW0/9/S/21/E/36/0/0/26/PM/N/649/W/0/2016/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	15:00 - 0:00	9.00	DRLPRV	02	B	P		DRILL /SLIDE / SURVEY/ F/ 6,502-7,162 = 659" @73.2 WOB 18,000-26,000 TOP DRIVE RPM 40-75 MUD MOTOR RPM 91 PUMPS 110- 130 SPM= 475-585 GPM PUMP PRESSURE ON/OFF BTM 2,350 /2,120 TORQUE ON/OFF BTM 14,000/ 19,000 PICK UP WT 201,000 SLACK OFF WT 126,000 ROT WT 156,000 SLIDE 30' IN 60 MIN 4.5 % OF FOOTAGE DRILLED, 11.1 %OF HRS DRILLED 125 BBLs FLUID LOST MUD WT 9.4 VIS 35, PUMPING 10 BBL SWEEPS EVERY STAND,W/ 5% CAL CARB & ANCO FIBER MIXING LCM TO CONTROL LOSSES NOV-PART D-WATER
1/1/2013	0:00 - 6:00	6.00	DRLPRV	02	B	P		DRILL /SLIDE / SURVEY/ F/ 7,161-7,500 = 339" @56.5 FPH FPH WOB 18,000-26,000 TOP DRIVE RPM 40-75 MUD MOTOR RPM 85-90 PUMPS 120-126 SPM= 540-585 GPM PUMP PRESSURE ON/OFF BTM 2,400 /2,000 TORQUE ON/OFF BTM 15,000/ 9,000 PICK UP WT 205,000 SLACK OFF WT 130,000 ROT WT 157,000 SLIDE 70' IN 140 MIN 20.7 % OF FOOTAGE DRILLED, 29 %OF HRS DRILLED SURVEY 7,381' INC .63 AZM 119.67 4'N - 17"W OF CENTER TARGET 90 BBLs FLUID LOST MUD WT 9.4 VIS 35, PUMPING 10 BBL SWEEPS EVERY STAND,W/ 5% CAL CARB & ANCO FIBER NOV-PART D-WATER SWACO OFF LINE

US ROCKIES REGION								
Operation Summary Report								
Well: MORGAN STATE 921-36B4CS RED					Spud Date: 7/6/2012			
Project: UTAH-UINTAH			Site: MORGAN STATE 921-36C PAD			Rig Name No: H&P 298/298, H&P 298/298, CAPSTAR 310/310		
Event: DRILLING			Start Date: 6/25/2012		End Date: 1/8/2013			
Active Datum: RKB @5,013.00usft (above Mean Sea Level)				UWI: NE/NW0/9/S/21/E/36/0/0/26/PM/N/649/W/0/2016/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 16:00	10.00	DRLPRV	02	B	P		DRILL /SLIDE / SURVEY/ F/ 7,500-8,010= 510" @51 FPH FPH WOB 18,000-26,000 TOP DRIVE RPM 55-80 MUD MOTOR RPM 85-90 PUMPS 110-126 SPM= 4955-585 GPM PUMP PRESSURE ON/OFF BTM 2,300 /2,100 TORQUE ON/OFF BTM 15,000/15,000 PICK UP WT 190,000 SLACK OFF WT 140,000 ROT WT 169,000 SLIDE 25' IN 65 MIN 4.9 % OF FOOTAGE DRILLED,10.8 %OF HRS DRILLED NO FLUID LOST MUD WT 9.4 VIS 35, PUMPING 10 BBL SWEEPS EVERY STAND,W/ 5% CAL CARB & ANCO FIBER NOV-PART D-WATER SWACO OFF LINE
	16:00 - 17:00	1.00	DRLPRV	07	A	P		DAILY RIG SERVICE,CHANGE ROTATING HEAD RUBBER
	17:00 - 0:00	7.00	DRLPRV	02	B	P		DRILL/ SURVEY/ F/ 7,500-8,010= 510" @51 FPH FPH WOB 18,000-26,000 TOP DRIVE RPM 55-80 MUD MOTOR RPM 85-90 PUMPS 110-126 SPM= 4955-585 GPM PUMP PRESSURE ON/OFF BTM 2,300 /2,100 TORQUE ON/OFF BTM 15,000/15,000 PICK UP WT 190,000 SLACK OFF WT 140,000 ROT WT 169,000 NO SLIDES NO FLUID LOST MUD WT 9.5 VIS 35, PUMPING 10 BBL SWEEPS EVERY STAND,W/ 5% CAL CARB & ANCO FIBER NOV-PART D-WATER SWACO OFF LINE

US ROCKIES REGION									
Operation Summary Report									
Well: MORGAN STATE 921-36B4CS RED					Spud Date: 7/6/2012				
Project: UTAH-UINTAH			Site: MORGAN STATE 921-36C PAD			Rig Name No: H&P 298/298, H&P 298/298, CAPSTAR 310/310			
Event: DRILLING			Start Date: 6/25/2012		End Date: 1/8/2013				
Active Datum: RKB @5,013.00usft (above Mean Sea Level)				UWI: NE/NW0/9/S/21/E/36/0/0/26/PM/N/649/W/0/2016/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation	
1/2/2013	0:00 - 6:00	6.00	DRLPRV	02	B	P		DRILL / SURVEY/ F/ 8,490-8,863 = 373" @62.1 FPH WOB 20,000-28,000 TOP DRIVE RPM 40-75 MUD MOTOR RPM 85-90 PUMPS 110-126 SPM= 495-550 GPM PUMP PRESSURE ON/OFF BTM 2,450 /2,150 TORQUE ON/OFF BTM 18,000/ 10,000 PICK UP WT 205,000 SLACK OFF WT 130,000 ROT WT 157,000 NO SLIDES NO FLUID LOST MUD WT 9.4 VIS 36 3-5 'FLA RE PUMPING 10 BBL SWEEPS EVERY STAND,W/ 5% CAL CARB & ANCO FIBER NOV-PART D-WATER SWACO OFF LINE	
	6:00 - 14:00	8.00	DRLPRV	02	B	P		DRILL / SURVEY/ F/ 8,863-9,395 = 532" @66.5 FPH WOB 22,000-28,000 TOP DRIVE RPM 40-75 MUD MOTOR RPM 85-90 PUMPS 110-126 SPM= 495-550 GPM PUMP PRESSURE ON/OFF BTM 2,450 /2,150 TORQUE ON/OFF BTM 18,000/ 19,000 PICK UP WT 220,000 SLACK OFF WT 160,000 ROT WT 188,000 NO SLIDES 40 BBL FLUID LOST MUD WT 9.6 VIS 37, PUMPING 10 BBL SWEEPS EVERY STAND,W/ 5% CAL CARB & ANCO FIBER NOV-PART D-WATER SWACO ON LINE 70 TO 150 PSI ON ANNULAS 5 TO 15' FLARE	
	14:00 - 14:30	0.50	DRLPRV	07	A	P		SERVICE RIG @ 9,395'	

US ROCKIES REGION								
Operation Summary Report								
Well: MORGAN STATE 921-36B4CS RED					Spud Date: 7/6/2012			
Project: UTAH-UINTAH			Site: MORGAN STATE 921-36C PAD			Rig Name No: H&P 298/298, H&P 298/298, CAPSTAR 310/310		
Event: DRILLING			Start Date: 6/25/2012		End Date: 1/8/2013			
Active Datum: RKB @5,013.00usft (above Mean Sea Level)				UWI: NE/NW0/9/S/21/E/36/0/0/26/PM/N/649/W/0/2016/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	14:30 - 0:00	9.50	DRLPRV	02	B	P		DRILL / SURVEY/ F/ 9,395'-9,792' = 397" @41.79 FPH WOB 22,000-28,000 TOP DRIVE RPM 40-75 MUD MOTOR RPM 79 PUMPS 108 SPM= 495-550 GPM PUMP PRESSURE ON/OFF BTM 2,215/2100 TORQUE ON/OFF BTM 18,000/ 20,000 PICK UP WT 220,000 SLACK OFF WT 175,000 ROT WT 195,000 NO SLIDES NO FLUID LOST MUD WT 9.6 VIS 37, PUMPING 10 BBL SWEEPS EVERY STAND,W/ 5% CAL CARB & ANCO FIBER NOV-PART D-WATER SWACO ON LINE 80 TO 150 PSI ON ANNULAS 5 TO 15' FLARE
1/3/2013	0:00 - 6:00	6.00	DRLPRV	02	B	P		DRILL / SURVEY/ F/ 9,792'-9,996' = 204' @34 FPH WOB 24,000-28,000 TOP DRIVE RPM 40-75 MUD MOTOR RPM 79 PUMPS 108 SPM= 495-550 GPM PUMP PRESSURE ON/OFF BTM 2,215/2100 TORQUE ON/OFF BTM 18,000/ 20,000 PICK UP WT 220,000 SLACK OFF WT 175,000 ROT WT 195,000 NO SLIDES NO FLUID LOST MUD WT 9.6 VIS 37, PUMPING 10 BBL SWEEPS EVERY STAND,W/ 5% CAL CARB & ANCO FIBER NOV-PART D-WATER SWACO ON LINE 80 TO 350 PSI ON ANNULAS 5 TO 15' FLARE

US ROCKIES REGION
Operation Summary Report

Well: MORGAN STATE 921-36B4CS RED		Spud Date: 7/6/2012	
Project: UTAH-UINTAH		Site: MORGAN STATE 921-36C PAD	
Event: DRILLING		Start Date: 6/25/2012	End Date: 1/8/2013
Active Datum: RKB @5,013.00usft (above Mean Sea Level)		UWI: NE/NW0/9/S/21/E/36/0/0/26/PM/N/649/W/0/2016/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 23:30	17.50	DRLPRV	02	B	P		DRILL / SURVEY/ F/ 9,996'-10,374' = 378' @16.1 FPH WOB 24,000-29,000 TOP DRIVE RPM 50-75 MUD MOTOR RPM 79 PUMPS 108 SPM= 495-550 GPM PUMP PRESSURE ON/OFF BTM 2630/2250 TORQUE ON/OFF BTM 18,000/ 13,000 PICK UP WT 225,000 SLACK OFF WT 170,000 ROT WT 196,000 NO SLIDES NO FLUID LOST MUD WT 11.6 VIS 40, NOV-OFF LINE SWACO ON LINE 150 TO 600 PSI ON ANNULAS 5 TO 10' FLARE WATER FLOW @ 10,100' START DISPLACING HOLE & BRINGING MUD WT UP TO 11.8PPG 41 VIS W/ 10% LCM
	23:30 - 0:00	0.50	DRLPRV	07	A	P		SERVICE RIG @ 10,374'
1/4/2013	0:00 - 13:30	13.50	DRLPRV	02	B	P		DRILL / SURVEY/ F/ 10,374'-10,657' = 283' @ 21 FPH WOB 24,000-29,000 TOP DRIVE RPM 50-75 MUD MOTOR RPM 79 PUMPS 108 SPM= 495-550 GPM PUMP PRESSURE ON/OFF BTM 2900/2550 TORQUE ON/OFF BTM 16,000/ 17,000 PICK UP WT 225,000 SLACK OFF WT 180,000 ROT WT 201,000 NO SLIDES NO FLUID LOST MUD WT 12.2 VIS 44,6% LCM NOV-OFF LINE SWACO OFF LINE
	13:30 - 14:00	0.50	DRLPRV	07	A	P		SERVICE RIG @ 10,657'
	14:00 - 21:30	7.50	DRLPRV	02	B	P		DRILL / SURVEY/ F/ 10,657'-10,830' TD = 173' @ 23 FPH WOB 24,000-29,000 TOP DRIVE RPM 50-75 MUD MOTOR RPM 79 PUMPS 108 SPM= 495-550 GPM PUMP PRESSURE ON/OFF BTM 2990/2620 TORQUE ON/OFF BTM 18,000/ 18,000 PICK UP WT 235,000 SLACK OFF WT 182,000 ROT WT 204,000 NO SLIDES 80 BBL FLUID LOST MUD WT 12.2 VIS 44,6% LCM NOV-OFF LINE SWACO OFF LINE

US ROCKIES REGION								
Operation Summary Report								
Well: MORGAN STATE 921-36B4CS RED					Spud Date: 7/6/2012			
Project: UTAH-UINTAH			Site: MORGAN STATE 921-36C PAD			Rig Name No: H&P 298/298, H&P 298/298, CAPSTAR 310/310		
Event: DRILLING			Start Date: 6/25/2012		End Date: 1/8/2013			
Active Datum: RKB @5,013.00usft (above Mean Sea Level)				UWI: NE/NW0/9/S/21/E/36/0/0/26/PM/N/649/W/0/2016/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	22:00 - 23:30	1.50	DRLPRV	05	C	P		CIRC & CLEAN HOLE @ 10,830' TD
	23:30 - 0:00	0.50	DRLPRV	06	E	P		FLOW CHECK , DRAIN & BLOW DOWN SURFACE EQUIPMENT
1/5/2013	0:00 - 7:30	7.50	DRLPRV	06	E	P		WIPER TRIP FROM 10,830' TO 2,745' WORK TIGHT HOLE @ 5,950',4,870',4,839' & 4,736'
	7:30 - 8:00	0.50	DRLPRV	07	A	P		SERVICE RIG @ 2,745'
	8:00 - 13:30	5.50	DRLPRV	22	K	Z		REMOVE LCM & TRASH FROM UNDER VALVES ,CHANGE OUT VALVES & SEATS IN BOTH MUD PUMPS ***MUD PUMPS***
	13:30 - 18:00	4.50	DRLPRV	06	E	P		WIPER TRIP FROM 2,745' TO 10,830' NO FILL / WORK & REAM TIGHT HOLE @ 3,959'THRU 4,839' CIRC & CONDITION MUD @ 10,830'
	18:00 - 20:00	2.00	DRLPRV	05	C	P		
	20:00 - 0:00	4.00	DRLPRV	06	E	P		2ND WIPER TRIP FROM 10,830' TO 2,600', WITH NO PROBLEMS
1/6/2013	0:00 - 3:00	3.00	DRLPRV	06	E	P		TRIP IN HOLE FROM 2,600' TO 6,043' HOLE IN GOOD SHAPE
	3:00 - 14:30	11.50	DRLPRV	06	A	P		TOOH LAYING DOWN TUBULARS FROM 6,043' TO BIT
	14:30 - 15:00	0.50	DRLPRV	07	A	P		SERVICE RIG
	15:00 - 19:30	4.50	DRLPRV	11	D	P		RIG UP & RUN OPEN HOLE LOGS - TRIPPLE COMBO - W/ HALLIBURTON TO 4,280' WORK TO 4,328' LOG UP / RIG DOWN LOGGERS
	19:30 - 22:30	3.00	DRLPRV	06	A	P		TRIP IN HOLE WITH 26 STDS OF DRILL PIPE
	22:30 - 0:00	1.50	DRLPRV	06	A	P		TOOH LAYING DOWN DRILL PIPE
1/7/2013	0:00 - 4:00	4.00	DRLPRV	06	A	P		TIH WITH DRILL PIPE FROM DERRICK LAY DOWN SAME
	4:00 - 4:30	0.50	DRLPRV	14	B	P		PULL WEAR BUSHING
	4:30 - 6:30	2.00	CSGPRO	12	A	P		PJSM, RIG UP FRANKS CASING EQUIPMENT
	6:30 - 17:30	11.00	CSGPRO	12	C	P		RUN 4 1/2" CASING TO 10,824',SHOE @ 10,824' / FLOAT COLLAR @ 10,779.07' BLACK HAWK MARK10.209' / M VERDE MARKER @ 7,437' / DVTOOL @ 4,260.87' X-O @ 4,257' LAND CASING HANGER WITH 105K / 245 JTS RAN
	17:30 - 19:00	1.50	CSGPRO	05	A	P		CIRCULATE & CONDITION MUD @ 10,824' HOLE IN GOOD SHAPE
	19:00 - 22:30	3.50	CSGPRO	12	E	P		PJSM RIG UP BJ CEMENTERS / PRESSURE TEST TO 5000 PSI / PUMP 1ST STAGE OF CEMENT / 25 BBLs SPACER / CEMENT 1,295 SKS - 14.3 PPG - 1.33 YIELD / 306 BBL CEMENT / DROP PLUG, DISPLACE,W/ 110 BBLs WATER , 57 BBLs 12.2 PPG MUD / BUMP PRESS@ 2,840 / FLOATS OK / 2 BBL MUD BACK TO INVENTORY
	22:30 - 0:00	1.50	CSGPRO	05	A	P		DROP BOMB - WAIT 30 MINS / BJ PRESSURE UP ON STAGE TOOL OPENED @ 830 PSI / BJ PUMP 10 BBL MUD, SWITCH TO RIG PUMP CIRCULATE OUT @ 3 BPM WHILE WAITING ON CEMENT,10 BBL SPACER BACK TO SURFACE
1/8/2013	0:00 - 2:30	2.50	CSGPRO	05	A	P		CIRCULATE WITH RIG PUMP @ 3 BPM WHILE WAITING ON CEMENT

US ROCKIES REGION								
Operation Summary Report								
Well: MORGAN STATE 921-36B4CS RED					Spud Date: 7/6/2012			
Project: UTAH-UINTAH			Site: MORGAN STATE 921-36C PAD			Rig Name No: H&P 298/298, H&P 298/298, CAPSTAR 310/310		
Event: DRILLING			Start Date: 6/25/2012		End Date: 1/8/2013			
Active Datum: RKB @5,013.00usft (above Mean Sea Level)				UWI: NE/NW0/9/S/21/E/36/0/0/26/PM/N/649/W/0/2016/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	2:30 - 5:00	2.50	CSGPRO	12	E	P		PUMP 2ND STAGE CEMENT AS PER PROGRAM 25 BBLs SPACER , CEMENT 610 SKS - 13.0 PPG - 1.79 YIELD/ 50 SKS -15.8PPG - 1.15 YIELD / 66 BBLs DISPLACEMENT / LIFT PRESSURE @ 1,168,BUMP PRESSURE @ 2,904 PSI, 1 BBL WATER BACK TO INVENTORY / FLOAT HELD / 25 BBLs LEAD CMT TO PIT / RD CEMENTERS
	5:00 - 7:00	2.00	CSGPRO	14	B	P		FLUSH BOP'S SET PACK OFF LAY DOWN RUNNING TOOL & BAILS
	7:00 - 12:00	5.00	CSGPRO	14	A	P		NIPPLE DOWN BOP'S /CLEAN PITS WINTERIZE SAME / RELEASE RIG @ 12:00 1/8/13

US ROCKIES REGION

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	MORGAN STATE 921-38B4CS RED	Wellbore No.	OH
Well Name	MORGAN STATE 921-38B4CS	Wellbore Name	MORGAN STATE 921-38B4CS
Report No.	1	Report Date	3/4/2013
Project	UTAH-JUNTAH	Site	MORGAN STATE 921-38C PAD
Rig Name/No.		Event	COMPLETION
Start Date	1/31/2013	End Date	4/8/2013
Spud Date	7/6/2012	Active Datum	RKB @5,013.00usft (above Mean Sea Level)
UWI	NE/NW/09/S/21/E/36/0/0/26/PM/N/649/W/0/2016/0/0		

1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly		Conveyed Method			

1.4 Initial Conditions

Fluid Type	Fluid Density	Gross Interval	7,599.0 (usft)-10,637.0 (usft)	Start Date/Time	3/4/2013 12:00AM
Surface Press	Estimate Res Press	No. of Intervals	61	End Date/Time	3/4/2013 12:00AM
TVD Fluid Top	Fluid Head	Total Shots	231	Net Perforation Interval	75.00 (usft)
Hydrostatic Press	Press Difference	Avg Shot Density	3.08 (shot/ft)	Final Surface Pressure	
Balance Cond	NEUTRAL			Final Press Date	

1.5 Summary

Diameter	0.360 (in)	Carr Type /Stage No	
Misfires/ Add. Shot		Carr Size (in)	3.375
Shot Density (shot/ft)	3.00	Phasing (°)	120.00
MD Base (usft)	7,601.0	Charge Desc /Charge Manufacturer	
MD Top (usft)	7,599.0	Charge Weight (gram)	23.00
CCL-T S (usft)		Reason	Misrun
CCL@ (usft)			
Formation/ Reservoir			
Date	3/4/2013 12:00AM		

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
3/4/2013 12:00AM	MESAVERDE/			7,599.0	7,601.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N

US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
3/4/2013 12:00AM	MESAVERDE/			7,621.0	7,623.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			7,649.0	7,651.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			7,730.0	7,732.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			7,812.0	7,814.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			7,954.0	7,956.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			7,980.0	7,982.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,107.0	8,109.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,233.0	8,235.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,258.0	8,260.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,332.0	8,334.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,426.0	8,428.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,518.0	8,519.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,570.0	8,571.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,598.0	8,599.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,609.0	8,610.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,635.0	8,636.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,645.0	8,646.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,653.0	8,654.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,662.0	8,663.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,732.0	8,733.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,774.0	8,775.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Mistrun
3/4/2013 12:00AM	MESAVERDE/			8,799.0	8,800.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,822.0	8,823.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,845.0	8,846.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,864.0	8,865.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,882.0	8,883.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,922.0	8,923.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,944.0	8,945.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,992.0	8,993.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			9,000.0	9,001.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			9,015.0	9,016.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			9,056.0	9,057.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			9,110.0	9,111.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			9,136.0	9,137.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			9,165.0	9,166.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			9,194.0	9,195.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			9,218.0	9,219.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			9,226.0	9,227.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			9,235.0	9,236.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			9,283.0	9,284.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			9,310.0	9,311.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			9,392.0	9,393.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Mistun
3/4/2013 12:00AM	MESAVERDE/			9,405.0	9,406.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			9,425.0	9,426.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			9,442.0	9,443.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			9,524.0	9,525.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			9,543.0	9,544.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			9,564.0	9,565.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			9,592.0	9,593.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			10,324.0	10,325.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			10,341.0	10,343.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			10,366.0	10,368.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			10,378.0	10,379.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			10,391.0	10,392.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			10,427.0	10,428.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			10,437.0	10,438.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			10,492.0	10,493.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			10,502.0	10,503.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			10,517.0	10,518.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			10,636.0	10,637.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

3 Plots

US ROCKIES REGION									
Operation Summary Report									
Well: MORGAN STATE 921-36B4CS RED					Spud Date: 7/6/2012				
Project: UTAH-UINTAH			Site: MORGAN STATE 921-36C PAD			Rig Name No: SWABBCO 6/6			
Event: COMPLETION			Start Date: 1/31/2013		End Date: 4/8/2013				
Active Datum: RKB @5,013.00usft (above Mean Sea Level)				UWI: NE/NW/0/9/S/21/E/36/0/0/26/PM/N/649/W/0/2016/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation	
1/30/2013	7:00 - 18:00	11.00	SUBSPR	32	A	P		7AM (DAY 1) JSA - NU & ND EQUIP	
								R/D CUDD BOP STACK & FV FROM 921-36C4BS & NUWH. MOVE OVER TO 921-36B4CS. NDWH, NUFV & CUDD BOP STACK. RIH W/ USED 3-7/8" PTT MILL & MUD MOTOR ON 2" COIL. TAG WET CMT @ 4119'. C/O 124' WET CMT TO DV TOOL @ 4243'. D/O DV TOOL IN 1 HR. RIH TO 10,762'. CIRC WELL CLN. POOH W/ COIL. NDBOP STACK & FV. NUWH. RDMO CUDD.	
								6 PM SWI	
1/31/2013	-								
2/27/2013	12:00 - 17:00	5.00	SUBSPR	33	C	P		FILL SURFACE CSG. MIRU CAMERON QUICK TEST. PRESSURE TEST CSG & FRAC VALVES 1ST PSI TEST T/ 9000 PSI. HELD FOR 15 MIN LOST 1350 PSI. 2ND PSI TEST T/ 9000 PSI. HELD FOR 10 MIN LOST 1200 PSI RU WL PU 4 1/2" CIBP RIH SET @ 10,725, POOH RD WL 3RD PSI TEST T/ 9000 PSI. HELD FOR 15 MIN LOST 175 PSI 4TH PSI TEST T/ 9000 PSI. HELD FOR 15 MIN LOST 227 PSI BLED PSI OFF WELL WAIT ON ORDERS NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI. PRESSURE TEST 8 5/8 X 4 1/2 TO 520 PSI HELD FOR 5 MIN LOST -200 PSI, BLED PSI OFF, REINSTALLED POP OFF SWIFN COULDN'T PUMP INTO SURFACE CASING NOTE: CEMENT BOND LOG LOOKS GOOD FROM DV TOOL TO SURFACE, BUT FROM DV TOOL TO 5000' NO CEMENT, AND FROM 5000' TO BOTTOM LOOKS GOOD, SUSPECT DV TOOL LEAKING	
3/6/2013	7:00 - 7:30	0.50		48		P		HSM, MAKING SURE GROUND IS GOOD AROUND WELL HEAD BEFORE RIGGING UP.	
	7:30 - 10:00	2.50		30	A	P		SICP 50 PSI, INSTALLED DIRT AROUND WELL HEAD, ND BOPS & NU FV, ON GREEN WELL, MOVE OVER & RIGGED UP, ND FV, NU BOPS, RIG UP FLOOR & TBG EQUIP.	
	10:00 - 13:30	3.50		31	I	P		PU 41/2 HD PKR & 134 JTS 23/8 L-80 SET PKR @ 4281', TEST DWN TBG TO 3,000 PSI, NO LEAK OFF, PRESSURE UP ON CSG TO 3,000# NO LEAK OFF, PRESSURE TO 4,000# ON CSG NO LEAK OFF.	

US ROCKIES REGION								
Operation Summary Report								
Well: MORGAN STATE 921-36B4CS RED					Spud Date: 7/6/2012			
Project: UTAH-UINTAH			Site: MORGAN STATE 921-36C PAD			Rig Name No: SWABBCO 6/6		
Event: COMPLETION			Start Date: 1/31/2013		End Date: 4/8/2013			
Active Datum: RKB @5,013.00usft (above Mean Sea Level)				UWI: NE/NW0/9/S/21/E/36/0/0/26/PM/N/649/W/0/2016/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	13:30 - 14:30	1.00		46	E	P		WAIT FOR CAMERON TEST TRUCK.
	14:30 - 17:00	2.50		52	F	P		RU CAMERON TEST TRK, PRESSURE UP TO 2,000 PSI ON CSG. TEST TBG & CSG BELOW PAKER @ 4281' FOR 14 MIN.LOST 400# PSI & PKR CAME LOOSE, BLEAD OFF PRESSURE. LD 2 JTS RE SET PKR @ 4217' TEST CSG TO 2,000 # PSI OK, WAIT ON ORDERS.SWI DRAIN UP SDFN.
3/7/2013	7:00 - 7:30	0.50		48		P		HSM, LAYING DOWN TBG.
	7:30 - 8:30	1.00		31	I	P		SICP 0, L/D 132 JTS 23/8 L-80 & PKR HYD HOLD DOWN SLIP WAS BROKE ON PKR.
	8:30 - 10:00	1.50		30	C	P		ND BOPS NU FV, RDMOL.
3/22/2013	7:00 - 7:30	0.50		48		P		HSM, GUY WRES
	7:30 - 15:00	7.50	RUNTBG	31	I	P		RIG DOWN OFF GREEN WELL, MOVE OVER & RIG UP. ND FV, NU BOPS, RU FLOOR & TBG EQUIP. PU MILL ASSEMBLY & 134 JTS 23/8 L-80 WORKED MILL F/ 4260'-63' ACROSS DV, L/D 2 JTS, CIR WELL CLEAN NO OIL, WAIT ON ORDERS SWI SDFWE
3/25/2013	7:00 - 7:30	0.50		48		P		HSM, WATCHING FOOTING
	7:30 - 21:00	13.50		31	I	P		POOH W/ 134 JTS & L/D MILLING ASSEMBLY, PU PATCH & SETTING TOOL, RIH FILLING TBG IN THE HOLE EVERY 3 STANDS.RU CASED HOLE RIH CORRALATE TBG ON DEPTH, POOH RD CASED HOLE, PULL TBG ON DEPTH, SET PATCH.TRY TO GO TROUGH PATCH W/ DRIFT HANGING UP, L/D 1 JT SWI WILL WORK ON RUNNING MORE STEPS ON BTM OF PATCH IN AM. SDFN.
3/26/2013	7:00 - 7:30	0.50		48		P		HSM, WORKING AROUND HIGH PRESSURE.
	7:30 - 9:00	1.50		31	C	P		PU 1 JT TBG, DONE 4 PRESSURE STEPS ON BTM OF PATCH GOT TIGHT SPOT CLEARED UP, MADE 1 PRESSURE STEP ON TOP OF PATCH, WORK DRIFT TROUGH PATCH 2 TIMES PATCH IS GOOD. RD TEST HOSE.
	9:00 - 18:00	9.00		31	I	P		L/D 134 JTS TBG & PATCH SETTING TOOL, ND BOPS NU FV FILL & TEST CSG & PATCH TO 9,000 PSI FOR 15 MIN.LOST 145 PSI IN 15 MIN RETEST TO 9,000 LOST 135 IN 15 MIN GOOD TEST, BLEAD OFF PSI, RIH W/ 3.60OD GAUGE RING TROUGH PATCH OK RD WL, RDMOL, MOVE TO NC 44-17 SDFN

US ROCKIES REGION									
Operation Summary Report									
Well: MORGAN STATE 921-36B4CS RED					Spud Date: 7/6/2012				
Project: UTAH-UINTAH			Site: MORGAN STATE 921-36C PAD			Rig Name No: SWABBCO 6/6			
Event: COMPLETION			Start Date: 1/31/2013			End Date: 4/8/2013			
Active Datum: RKB @5,013.00usft (above Mean Sea Level)					UWI: NE/NW0/9/S/21/E/36/0/0/26/PM/N/649/W/0/2016/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation	
4/1/2013	7:30 - 18:00	10.50	FRAC	36	B	P		<p>PUMP 20/40 TLC IN THE 1ST 2 STG'S. FRAC STG 1)WHP 366 PSI, BRK 4197 PSI @ 4.9 BPM. ISIP 3415 PSI, FG. 0.76 ISIP 3503 PSI, FG. 0.77, NPI 88 PSI. WMI, XO T/ WL. (sand reached 1#, psi started climbing. pump 100 bbl sweep. start ramf/ .5# t/ .75# hole. finish frac)</p> <p>PERF STG 2)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 10,417' P/U PERF AS PER DESIGN. POOH, XO T/ FRAC.</p> <p>FRAC STG 2)WHP 2620 PSI, BRK 4377 PSI @ 4.7 BPM. ISIP 3257 PSI, FG. 0.75 ISIP 3700 PSI, FG. 0.8, NPI 443 PSI. SWI, XO T/ WL. (ramped 20/40 tlc t/ .75# then held. finished frac)</p> <p>PERF STG 3)PU 4 1/2 8K BAKER CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 9623' P/U PERF AS PER DESIGN. POOH, XO T/ FRAC.</p> <p>FRAC STG 3)WHP 2080 PSI, BRK 3229 PSI @ 4.5 BPM. ISIP 2154 PSI, FG. 0.67 ISIP 2730 PSI, FG. 0.73, NPI 576 PSI. SWI, XO T/ WL.</p> <p>PERF STG 4)PU 4 1/2 8K BAKER CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 9341' P/U PERF AS PER DESIGN. POOH, XO T/ FRAC.</p> <p>FRAC STG 4)WHP 1112 PSI, BRK 3824 PSI @ 5.1 BPM. ISIP 2549 PSI, FG. 0.71 ISIP 2961 PSI, FG. 0.76, NPI 412 PSI. SWIFN.</p>	

US ROCKIES REGION
Operation Summary Report

Well: MORGAN STATE 921-36B4CS RED		Spud Date: 7/6/2012	
Project: UTAH-UINTAH		Site: MORGAN STATE 921-36C PAD	Rig Name No: SWABBCO 6/6
Event: COMPLETION		Start Date: 1/31/2013	End Date: 4/8/2013
Active Datum: RKB @5,013.00usft (above Mean Sea Level)		UWI: NENW09/S/21/E/36/0/0/26/PM/N/649/W/0/2016/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
4/2/2013	9:30 - 18:00	8.50	FRAC	36	B	P		<p>PERF STG 5)PU 4 1/2 8K BAKER CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 9155' P/U PERF AS PER DESIGN. POOH, XO T/FRAC.</p> <p>FRAC STG 5)WHP 2104 PSI, BRK 2987 PSI @ 6.6 BPM. ISIP 2447 PSI, FG. 0.71 ISIP 2887 PSI, FG. 0.76, NPI 440 PSI. SWI, XO T/ WL.</p> <p>PERF STG 6)PU 4 1/2 8K BAKER CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 8912' P/U PERF AS PER DESIGN. POOH, XO T/FRAC.</p> <p>FRAC STG 6)WHP 2032 PSI, BRK 3196 PSI @ 4.9 BPM. ISIP 2265 PSI, FG. 0.7 ISIP 2798 PSI, FG. 0.76, NPI 533 PSI. SWI, XO T/ WL.</p> <p>PERF STG 7)PU 4 1/2 8K BAKER CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 8693' P/U PERF AS PER DISIGN. POOH, XO T/FRAC.</p> <p>FRAC STG 7)WHP 1551 PSI, BRK 2681 PSI @ 4.9 BPM. ISIP 1957 PSI, FG. 0.67 ISIP 2724 PSI, FG. 0.76, NPI 767 PSI. SWI, XO T/ WL.</p> <p>PERF STG 8)PU 4 1/2 8K BAKER CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 8458' P/U PERF AS PER DESIGN. POOH, XO T/FRAC.</p> <p>FRAC STG 8)WHP 1755 PSI, BRK 2695 PSI @ 4.5 BPM. ISIP 1895 PSI, FG. 0.67 ISIP 2857 PSI, FG. 0.78, NPI 962 PSI. SWIFN.</p>

US ROCKIES REGION									
Operation Summary Report									
Well: MORGAN STATE 921-36B4CS RED					Spud Date: 7/6/2012				
Project: UTAH-UINTAH			Site: MORGAN STATE 921-36C PAD			Rig Name No: SWABBCO 6/6			
Event: COMPLETION			Start Date: 1/31/2013		End Date: 4/8/2013				
Active Datum: RKB @5,013.00usft (above Mean Sea Level)				UWI: NE/NW0/9/S/21/E/36/0/0/26/PM/N/649/W/0/2016/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation	
4/3/2013	7:00 - 18:00	11.00	FRAC	36	B	P		PERF STG 9)PU 4 1/2 8K BAKER CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 8139' P/U PERF AS PER DESIGN. POOH, XO T/ FRAC. FRAC STG 9)WHP 1400 PSI, BRK 2329 PSI @ 4.4 BPM. ISIP 1495 PSI, FG. 0.63 ISIP 2355 PSI, FG. 0.73, NPI 860 PSI. SWI, XO T/ WL. PERF STG 10)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 7762' P/U PERF AS PER DESIGN. POOH, XO T/ FRAC. FRAC STG 10)WHP 1365 PSI, BRK 2203 PSI @ 4.9 BPM. ISIP 1500 PSI, FG. 0.63 ISIP 2040 PSI, FG. 0.7, NPI 540 PSI. SWI, XO T/ WL. PU 4 1/2 8K BAKER CBP. RIH SET KILL PLUG @ 7549'. POOH. SWI, DONE FRACING THIS WELL. TOTAL SAND = 289,118 LBS TOTAL CLFL = 14,159 BBL	
4/4/2013	2:00 - 5:00	3.00	DRLOUT	44	C	P		MIRU, NDWH, NU BOP'S	
4/5/2013	7:00 - 7:30	0.50	DRLOUT	48		P		TRIPPING TBG	
	7:30 - 17:00	9.50	DRLOUT	44	C	P		PU POBS, SN, BIT, TIH 150 JTS J-55, 4762', INSTALL 6' PUP JT, PU 88 JTS L-80 TBG TO 7546', TAG PLUG# 1, PU PWR SWIVEL, BREAK CIRC, TEST BOP'S TO 3000#, MILL 3 PLUGS, EOT 8198' 260 JTS, SWIFWE	
4/8/2013	7:00 - 7:30	0.50	DRLOUT	48		P		MILLING PLUGS	

US ROCKIES REGION								
Operation Summary Report								
Well: MORGAN STATE 921-36B4CS RED					Spud Date: 7/6/2012			
Project: UTAH-UINTAH			Site: MORGAN STATE 921-36C PAD			Rig Name No: SWABBCO 6/6		
Event: COMPLETION			Start Date: 1/31/2013		End Date: 4/8/2013			
Active Datum: RKB @5,013.00usft (above Mean Sea Level)				UWI: NE/NW0/9/S/21/E/36/0/0/26/PM/N/649/W/0/2016/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:30 - 17:00	9.50	DRLOUT	44	C	P		MILL 7 CBP'S, 337 JTS, 10,637',C/O 45' SAND,TO PBTD 10778', 341 JTS, POOH TO 10291.53', 325 JTS, LAND TBG, ND BOP'S, NUWH, POBS, 2500#, PRESSURE TEST FLOW LINE 3000#, RDMO TURNED TO PROD 4:00 PM PLUG# 1 7546' 10' SAND 5 MIN 150# KICK PLUG# 2 7762' 30' SAND 5 MIN 100# KICK PLUG# 3 8139' 30' SAND 5 MIN 100# KICK PLUG# 4 8458' 30' SAND 5 MIN 150# KICK PLUG# 5 8693' 30' SAND 5 MIN 150# KICK PLUG# 6 8912' 30' SAND 5 MIN 150# KICK PLUG# 7 9155' 20' SAND 5 MIN 100# KICK PLUG# 8 9341' 20' SAND 5 MIN 150# KICK PLUG# 9 9628' 20' SAND 5 MIN 200# KICK PLUG# 10 10417' 25' SAND 5 MIN 150# KICK PBTD 10778' BTM PERF 10637' TBG 150 JTS J-55 4731.02' BTM TBG 175 JTS L-80 5532.48' TOP KB 25.00' HANGER 4.125" .83' SN 1.875" 2.20' EOT 10,291.53' NOTE: SHORT JT AT 5532.48' FRAC WTR 14,159 BBLS RCVD 3,100 BBLS LTR 11,059 BBLS
	17:00 - 17:00	0.00	DRLOUT	50				WELL TURNED TO SALES @ 1730 HR ON 4/8/2013. 2200 MCFD, 1560 BWP, FCP 2000#, FTP 2000#, 20/64" CK.



Project: UTAH - UTM (feet), NAD27, Zone 12N
 Site: UINTAH_MORGAN STATE 921-36C PAD
 Well: MORGAN STATE 921-36B4CS
 Wellbore: MORGAN STATE 921-36B4CS
 Section: NE ¼ NW ¼ OF Sec.36-T9S-R21E
 SHL:
 Design: MORGAN STATE 921-36B4CS (wp01)
 Latitude: 39.997992
 Longitude: -109.501601
 GL: 4988.00
 KB: 26' RKB + 4988' GL @ 5014.00ft (H&P 298)

FORMATION TOP DETAILS		
TVDPATH	MDPATH	FORMATION
1333.00	1355.29	GREEN RIVER
1657.00	1703.43	BIRDS NEST
2149.00	2236.77	MAHOGANY MARKER
4605.00	4855.07	WASATCH
5212.00	5476.71	INTERCEPT
7282.00	7546.73	MESAVERDE
9437.00	9701.75	SEGO
9519.00	9783.75	CASTLEGATE
9955.00	10219.76	BLACKHAWK

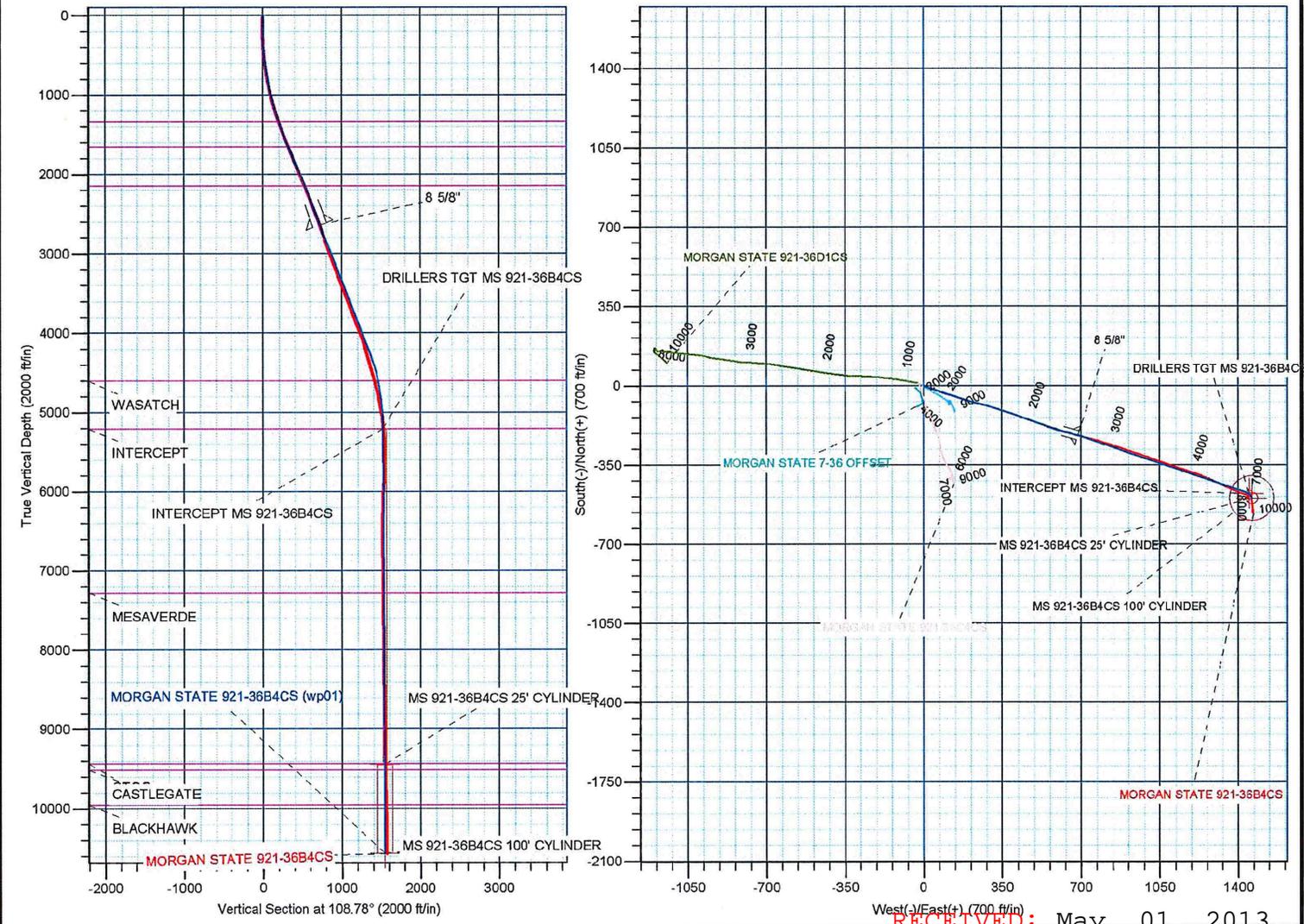
WELL DETAILS: MORGAN STATE 921-36B4CS						
+N/-S	+E/-W	Northing	Ground Level: Easting	4988.00 Latitude	Longitude	Slot
0.00	0.00	14528840.76	2060076.46	39.997992	-109.501601	

CASING DETAILS			
TVD	MD	Name	Size
2636.06	2760.50	8 5/8"	8-5/8

Azimuths to True North
 Magnetic North: 10.90°
 Magnetic Field
 Strength: 52180.95nT
 Dip Angle: 65.83°
 Date: 10/29/2012
 Model: IGRF2010

DESIGN TARGET DETAILS										
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape		
DRILLERS TGT MS 921-36B4CS	5212.00	-476.00	1446.50	14528389.15	2061530.75	39.996685	-109.496437	Circle (Radius: 15.00)		
INTERCEPT MS 921-36B4CS	5212.00	-476.00	1446.50	14528389.15	2061530.75	39.996685	-109.496437	Point		
MS 921-36B4CS 25' CYLINDER	9444.00	-496.37	1460.03	14528369.01	2061544.63	39.996629	-109.496389	Circle (Radius: 25.00)		
MS 921-36B4CS 100' CYLINDER	10562.00	-496.37	1460.03	14528369.01	2061544.63	39.996629	-109.496389	Circle (Radius: 100.00)		

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	
2736.00	19.96	105.25	2613.06	-217.16	677.04	0.00	0.00	710.90	
2839.06	21.63	108.67	2709.41	-227.87	712.00	2.00	37.63	747.46	
4395.34	21.63	108.67	4156.13	-411.45	1255.43	0.00	0.00	1321.05	
5476.71	0.00	0.00	5212.00	-476.00	1446.50	2.00	180.00	1522.73	
5564.75	0.26	146.41	5300.04	-476.17	1446.61	0.30	146.41	1522.89	
10826.77	0.26	146.41	10562.00	-496.37	1460.03	0.00	0.00	1542.10	





Weatherford®

US ROCKIES REGION PLANNING

**UTAH - UTM (feet), NAD27, Zone 12N
UINTAH_MORGAN STATE 921-36C PAD
MORGAN STATE 921-36B4CS**

MORGAN STATE 921-36B4CS

Design: MORGAN STATE 921-36B4CS

Standard Survey Report

11 January, 2013





Andarko Petroleum Corporation
Survey Report



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well MORGAN STATE 921-36B4CS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	26' RKB + 4988' GL @ 5014.00ft (H&P 298)
Site:	UINTAH_MORGAN STATE 921-36C PAD	MD Reference:	26' RKB + 4988' GL @ 5014.00ft (H&P 298)
Well:	MORGAN STATE 921-36B4CS	North Reference:	True
Wellbore:	MORGAN STATE 921-36B4CS	Survey Calculation Method:	Minimum Curvature
Design:	MORGAN STATE 921-36B4CS	Database:	edmp

Project	UTAH - UTM (feet), NAD27, Zone 12N		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	UINTAH_MORGAN STATE 921-36C PAD, NE ¼ NW ¼ OF Sec.36-T9S-R21E				
Site Position:		Northing:	14,528,840.77 usft	Latitude:	39.997992
From:	Lat/Long	Easting:	2,060,076.45 usft	Longitude:	-109.501601
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.96 °

Well	MORGAN STATE 921-36B4CS					
Well Position	+N/-S	0.00 ft	Northing:	14,528,840.77 usft	Latitude:	39.997992
	+E/-W	0.00 ft	Easting:	2,060,076.45 usft	Longitude:	-109.501601
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,988.00 ft

Wellbore	MORGAN STATE 921-36B4CS				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/29/2012	10.90	65.83	52,191

Design	MORGAN STATE 921-36B4CS				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	17.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	17.00	0.00	0.00	111.08	

Survey Program	Date	1/11/2013			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
217.00	2,736.00	Survey #1 (MORGAN STATE 921-36B4CS)	MWD	MWD - STANDARD	
2,843.00	10,830.00	Survey #2 (MORGAN STATE 921-36B4CS)	MWD	MWD - STANDARD	

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17.00	0.00	0.00	17.00	0.00	0.00	0.00	0.00	0.00	0.00
217.00	0.18	262.75	217.00	-0.04	-0.31	-0.28	0.09	0.09	0.00
248.00	0.35	218.10	248.00	-0.12	-0.42	-0.35	0.82	0.55	-144.03
339.00	1.67	105.95	338.99	-0.70	0.69	0.89	2.01	1.45	-123.24
429.00	3.96	109.12	428.87	-2.08	4.88	5.30	2.55	2.54	3.52
522.00	5.51	105.49	521.55	-4.33	12.22	12.96	1.70	1.67	-3.90
617.00	7.47	107.36	615.94	-7.39	22.51	23.66	2.07	2.06	1.97
711.00	9.09	110.08	708.96	-11.76	35.32	37.18	1.77	1.72	2.89
804.00	10.69	112.26	800.57	-17.55	50.20	53.15	1.77	1.72	2.34
900.00	12.66	109.38	894.58	-24.41	68.37	72.57	2.14	2.05	-3.00



Andarko Petroleum Corporation
Survey Report



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well MORGAN STATE 921-36B4CS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	26' RKB + 4988' GL @ 5014.00ft (H&P 298)
Site:	UINTAH_MORGAN STATE 921-36C PAD	MD Reference:	26' RKB + 4988' GL @ 5014.00ft (H&P 298)
Well:	MORGAN STATE 921-36B4CS	North Reference:	True
Wellbore:	MORGAN STATE 921-36B4CS	Survey Calculation Method:	Minimum Curvature
Design:	MORGAN STATE 921-36B4CS	Database:	edmp

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
993.00	14.20	109.94	985.04	-31.69	88.70	94.17	1.66	1.66	0.60
1,087.00	15.12	106.48	1,075.98	-39.10	111.30	117.91	1.35	0.98	-3.68
1,183.00	16.18	107.18	1,168.42	-46.60	136.09	143.74	1.12	1.10	0.73
1,279.00	17.26	108.26	1,260.36	-55.01	162.39	171.31	1.17	1.13	1.13
1,372.00	18.55	107.36	1,348.85	-63.75	189.61	199.85	1.42	1.39	-0.97
1,466.00	20.39	105.20	1,437.47	-72.51	219.69	231.07	2.10	1.96	-2.30
1,557.00	22.42	103.58	1,522.19	-80.74	251.86	264.04	2.32	2.23	-1.78
1,651.00	23.30	105.60	1,608.81	-89.95	287.19	300.32	1.25	0.94	2.15
1,745.00	22.95	106.57	1,695.26	-100.17	322.66	337.10	0.55	-0.37	1.03
1,837.00	22.95	108.06	1,779.98	-110.85	356.91	372.89	0.63	0.00	1.62
1,932.00	22.97	110.94	1,867.45	-123.22	391.83	409.93	1.18	0.02	3.03
2,027.00	23.30	109.29	1,954.81	-136.05	426.88	447.24	0.77	0.35	-1.74
2,121.00	21.37	109.38	2,041.76	-147.87	460.58	482.95	2.05	-2.05	0.10
2,214.00	22.60	110.08	2,127.99	-159.63	493.35	517.75	1.35	1.32	0.75
2,308.00	23.17	109.63	2,214.59	-172.05	527.73	554.30	0.63	0.61	-0.48
2,403.00	22.07	108.59	2,302.28	-184.01	562.25	590.81	1.23	-1.16	-1.09
2,496.00	22.16	107.36	2,388.44	-194.82	595.56	625.77	0.51	0.10	-1.32
2,591.00	20.38	104.47	2,476.97	-204.30	628.68	660.09	2.17	-1.87	-3.04
2,687.00	20.14	105.07	2,567.03	-212.77	660.82	693.13	0.33	-0.25	0.63
2,736.00	19.96	105.25	2,613.06	-217.16	677.04	709.84	0.39	-0.37	0.37
TIE ON TO SURFACE SURVEY									
2,843.00	19.42	103.76	2,713.81	-226.20	711.93	745.65	0.69	-0.50	-1.39
FIRST WFT MWD SURVEY									
2,938.00	19.17	104.55	2,803.47	-233.87	742.37	776.81	0.38	-0.26	0.83
3,032.00	18.84	105.08	2,892.35	-241.70	771.96	807.24	0.40	-0.35	0.56
3,127.00	19.50	106.17	2,982.08	-250.11	802.00	838.29	0.79	0.69	1.15
3,221.00	20.94	107.67	3,070.28	-259.58	833.08	870.69	1.63	1.53	1.60
3,316.00	21.50	108.42	3,158.84	-270.23	865.77	905.03	0.66	0.59	0.79
3,411.00	21.25	108.67	3,247.31	-281.24	898.60	939.62	0.28	-0.26	0.26
3,505.00	21.13	109.05	3,334.95	-292.22	930.75	973.57	0.19	-0.13	0.40
3,599.00	20.56	108.92	3,422.80	-303.11	962.38	1,007.00	0.61	-0.61	-0.14
3,694.00	20.88	109.17	3,511.65	-314.07	994.15	1,040.59	0.35	0.34	0.26
3,789.00	22.06	110.55	3,600.06	-325.90	1,026.85	1,075.35	1.35	1.24	1.45
3,883.00	21.81	109.17	3,687.26	-337.83	1,059.87	1,110.45	0.61	-0.27	-1.47
3,978.00	21.75	109.67	3,775.47	-349.55	1,093.11	1,145.69	0.21	-0.06	0.53
4,073.00	21.25	107.55	3,863.87	-360.66	1,126.10	1,180.47	0.97	-0.53	-2.23
4,167.00	20.63	107.30	3,951.66	-370.72	1,158.16	1,213.99	0.67	-0.66	-0.27
4,261.00	19.88	109.67	4,039.84	-381.03	1,189.02	1,246.49	1.18	-0.80	2.52
4,356.00	18.44	108.30	4,129.58	-391.18	1,218.49	1,277.65	1.59	-1.52	-1.44
4,451.00	17.06	112.30	4,220.06	-401.19	1,245.65	1,306.59	1.94	-1.45	4.21
4,545.00	16.81	114.92	4,309.98	-412.15	1,270.74	1,333.94	0.85	-0.27	2.79
4,640.00	16.38	115.92	4,401.03	-423.79	1,295.25	1,360.99	0.54	-0.45	1.05
4,734.00	15.56	115.80	4,491.40	-435.07	1,318.52	1,386.77	0.87	-0.87	-0.13



Andarko Petroleum Corporation
Survey Report



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well MORGAN STATE 921-36B4CS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	26' RKB + 4988' GL @ 5014.00ft (H&P 298)
Site:	UINTAH_MORGAN STATE 921-36C PAD	MD Reference:	26' RKB + 4988' GL @ 5014.00ft (H&P 298)
Well:	MORGAN STATE 921-36B4CS	North Reference:	True
Wellbore:	MORGAN STATE 921-36B4CS	Survey Calculation Method:	Minimum Curvature
Design:	MORGAN STATE 921-36B4CS	Database:	edmp

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,829.00	14.28	114.05	4,583.19	-445.39	1,340.69	1,411.17	1.43	-1.35	-1.84	
4,923.00	14.31	113.05	4,674.28	-454.67	1,361.97	1,434.35	0.26	0.03	-1.06	
5,018.00	13.13	112.17	4,766.57	-463.34	1,382.76	1,456.88	1.26	-1.24	-0.93	
5,112.00	11.56	112.80	4,858.40	-471.02	1,401.33	1,476.97	1.68	-1.67	0.67	
5,207.00	10.13	106.92	4,951.70	-477.14	1,418.10	1,494.81	1.90	-1.51	-6.19	
5,301.00	7.94	102.67	5,044.53	-480.97	1,432.35	1,509.48	2.43	-2.33	-4.52	
5,396.00	6.00	97.42	5,138.82	-483.05	1,443.67	1,520.80	2.15	-2.04	-5.53	
5,490.00	4.13	94.05	5,232.45	-483.92	1,451.92	1,528.81	2.01	-1.99	-3.59	
5,585.00	1.81	90.55	5,327.32	-484.18	1,456.84	1,533.49	2.45	-2.44	-3.68	
5,680.00	1.06	81.55	5,422.29	-484.06	1,459.20	1,535.66	0.82	-0.79	-9.47	
5,774.00	0.44	310.67	5,516.28	-483.70	1,459.79	1,536.07	1.48	-0.66	-139.23	
5,869.00	0.25	277.42	5,611.28	-483.43	1,459.31	1,535.53	0.28	-0.20	-35.00	
5,963.00	1.63	292.17	5,705.27	-482.90	1,457.87	1,533.99	1.48	1.47	15.69	
6,058.00	1.44	287.67	5,800.23	-482.03	1,455.48	1,531.45	0.24	-0.20	-4.74	
6,152.00	1.31	282.92	5,894.20	-481.43	1,453.31	1,529.21	0.18	-0.14	-5.05	
6,247.00	1.25	263.30	5,989.18	-481.31	1,451.22	1,527.22	0.46	-0.06	-20.65	
6,342.00	1.28	257.18	6,084.16	-481.67	1,449.15	1,525.42	0.15	0.03	-6.44	
6,436.00	1.31	247.67	6,178.13	-482.31	1,447.14	1,523.77	0.23	0.03	-10.12	
6,531.00	1.44	239.92	6,273.11	-483.32	1,445.10	1,522.23	0.24	0.14	-8.16	
6,625.00	1.50	234.05	6,367.08	-484.63	1,443.08	1,520.82	0.17	0.06	-6.24	
6,720.00	1.44	229.55	6,462.05	-486.14	1,441.17	1,519.57	0.14	-0.06	-4.74	
6,814.00	1.38	222.42	6,556.02	-487.74	1,439.50	1,518.60	0.20	-0.06	-7.59	
6,908.00	1.19	219.42	6,649.99	-489.33	1,438.12	1,517.88	0.21	-0.20	-3.19	
7,003.00	0.81	204.67	6,744.98	-490.70	1,437.21	1,517.53	0.48	-0.40	-15.53	
7,097.00	1.19	138.61	6,838.97	-492.04	1,437.58	1,518.35	1.21	0.40	-70.28	
7,192.00	1.56	93.17	6,933.94	-492.85	1,439.53	1,520.46	1.17	0.39	-47.83	
7,286.00	1.75	96.67	7,027.90	-493.09	1,442.23	1,523.06	0.23	0.20	3.72	
7,381.00	0.63	119.67	7,122.88	-493.51	1,444.12	1,524.99	1.26	-1.18	24.21	
7,475.00	0.95	85.56	7,216.87	-493.71	1,445.35	1,526.20	0.59	0.34	-36.29	
7,569.00	1.19	2.05	7,310.86	-492.67	1,446.16	1,526.58	1.53	0.26	-88.84	
7,664.00	1.13	353.42	7,405.84	-490.76	1,446.09	1,525.83	0.19	-0.06	-9.08	
7,759.00	0.88	358.05	7,500.83	-489.10	1,445.96	1,525.11	0.28	-0.26	4.87	
7,853.00	0.94	20.17	7,594.82	-487.65	1,446.20	1,524.81	0.38	0.06	23.53	
7,948.00	0.75	26.17	7,689.81	-486.36	1,446.74	1,524.86	0.22	-0.20	6.32	
8,042.00	0.69	44.55	7,783.80	-485.41	1,447.41	1,525.14	0.25	-0.06	19.55	
8,136.00	0.69	51.30	7,877.79	-484.65	1,448.25	1,525.65	0.09	0.00	7.18	
8,231.00	0.44	78.55	7,972.79	-484.22	1,449.05	1,526.24	0.38	-0.26	28.68	
8,325.00	0.56	112.42	8,066.78	-484.32	1,449.83	1,527.01	0.33	0.13	36.03	
8,420.00	0.81	113.05	8,161.78	-484.76	1,450.88	1,528.14	0.26	0.26	0.66	
8,515.00	1.00	124.17	8,256.76	-485.49	1,452.18	1,529.62	0.27	0.20	11.71	
8,609.00	1.00	121.92	8,350.75	-486.39	1,453.56	1,531.22	0.04	0.00	-2.39	
8,703.00	1.06	134.42	8,444.73	-487.43	1,454.87	1,532.83	0.25	0.06	13.30	
8,798.00	1.19	149.17	8,539.72	-488.89	1,456.01	1,534.41	0.33	0.14	15.53	
8,892.00	1.28	157.32	8,633.70	-490.70	1,456.91	1,535.91	0.21	0.10	8.67	



Andarko Petroleum Corporation

Survey Report



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well MORGAN STATE 921-36B4CS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	26' RKB + 4988' GL @ 5014.00ft (H&P 298)
Site:	UINTAH_MORGAN STATE 921-36C PAD	MD Reference:	26' RKB + 4988' GL @ 5014.00ft (H&P 298)
Well:	MORGAN STATE 921-36B4CS	North Reference:	True
Wellbore:	MORGAN STATE 921-36B4CS	Survey Calculation Method:	Minimum Curvature
Design:	MORGAN STATE 921-36B4CS	Database:	edmp

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,175.00	2.19	173.67	8,916.56	-498.99	1,458.73	1,540.58	0.36	0.32	5.78
9,458.00	2.25	182.30	9,199.35	-509.91	1,459.10	1,544.86	0.12	0.02	3.05
9,742.00	1.94	162.42	9,483.17	-520.07	1,460.33	1,549.66	0.28	-0.11	-7.00
10,025.00	2.38	178.92	9,765.97	-530.51	1,461.89	1,554.86	0.27	0.16	5.83
10,309.00	2.38	175.67	10,049.72	-542.28	1,462.44	1,559.62	0.05	0.00	-1.14
10,592.00	2.50	168.92	10,332.47	-554.20	1,464.07	1,565.43	0.11	0.04	-2.39
10,765.00	2.87	166.65	10,505.28	-562.12	1,465.80	1,569.88	0.22	0.21	-1.31
LAST WFT MWD SURVEY									
10,830.00	2.87	166.65	10,570.19	-565.28	1,466.55	1,571.72	0.00	0.00	0.00
PROJECTION TO TD									

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
2,736.00	2,613.06	-217.16	677.04	TIE ON TO SURFACE SURVEY	
2,843.00	2,713.81	-226.20	711.93	FIRST WFT MWD SURVEY	
10,765.00	10,505.28	-562.12	1,465.80	LAST WFT MWD SURVEY	
10,830.00	10,570.19	-565.28	1,466.55	PROJECTION TO TD	

Checked By: _____ Approved By: _____ Date: _____