

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 921-36C4BS				
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 Coalbed Methane Well: NO						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		645 FNL 2007 FWL		NENW	36	9.0 S	21.0 E	S		
Top of Uppermost Producing Zone		745 FNL 2143 FWL		NENW	36	9.0 S	21.0 E	S		
At Total Depth		745 FNL 2143 FWL		NENW	36	9.0 S	21.0 E	S		
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 745			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) 185			26. PROPOSED DEPTH MD: 10598 TVD: 10593				
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 - 2630	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 - 10598	11.6	HCP-110 LT&C	13.0	Premium Lite High Strength	320	3.38	12.0
							50/50 Poz	1530	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 43047522730000			APPROVAL  Permit Manager							

Kerr-McGee Oil & Gas Onshore. L.P.**MORGAN STATE 921-36C4BS**

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

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	1,376'	
Birds Nest	1,678'	Water
Mahogany	2,175'	Water
Wasatch	4,633'	Gas
Mesaverde	7,316'	Gas
Sego	9,498'	Gas
Castlegate	9,560'	Gas
MN5	9,993'	Gas
TVD =	10,593'	
TD =	10,598'	

- 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 10593' TVD, approximately equals
6,991 psi (0.66 psi/ft = actual bottomhole gradient)

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

Maximum anticipated surface pressure equals approximately 4,709 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 9498' TVD, approximately equals
6,079 psi (0.64 psi/ft = actual bottomhole gradient)

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

Maximum anticipated surface pressure equals approximately 3,976 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.

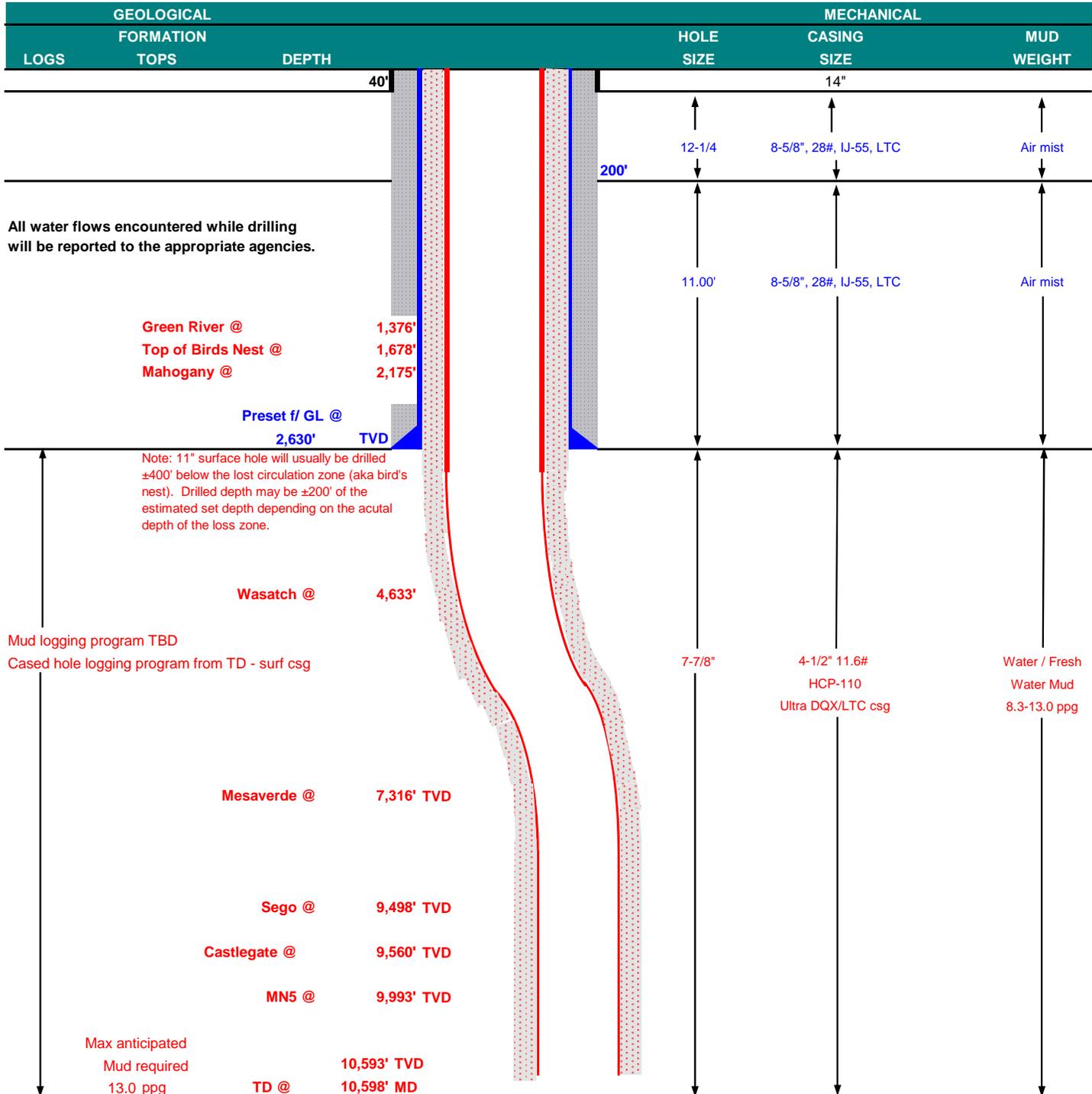
10. **Other Information:**

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 921-36C4BS		TD	10,593'	TVD	10,598' MD	
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION	4,988'
SURFACE LOCATION	NENW	645 FNL	2007 FWL	Sec 36	T 9S	R 21E	
	Latitude:	39.998004	Longitude:	-109.501634			NAD 27
BTM HOLE LOCATION	NENW	745 FNL	2143 FWL	Sec 36	T 9S	R 21E	
	Latitude:	39.99773	Longitude:	-109.501149			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			
							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 2,630	28.00	IJ-55	LTC	2.05	1.53	5.40	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 10,598'	11.60	HCP-110	LTC	1.19	1.21	5.36	

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	2,130'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	200	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	4,128'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	320	35%	12.00	3.38
	TAIL	6,470'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,530	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:

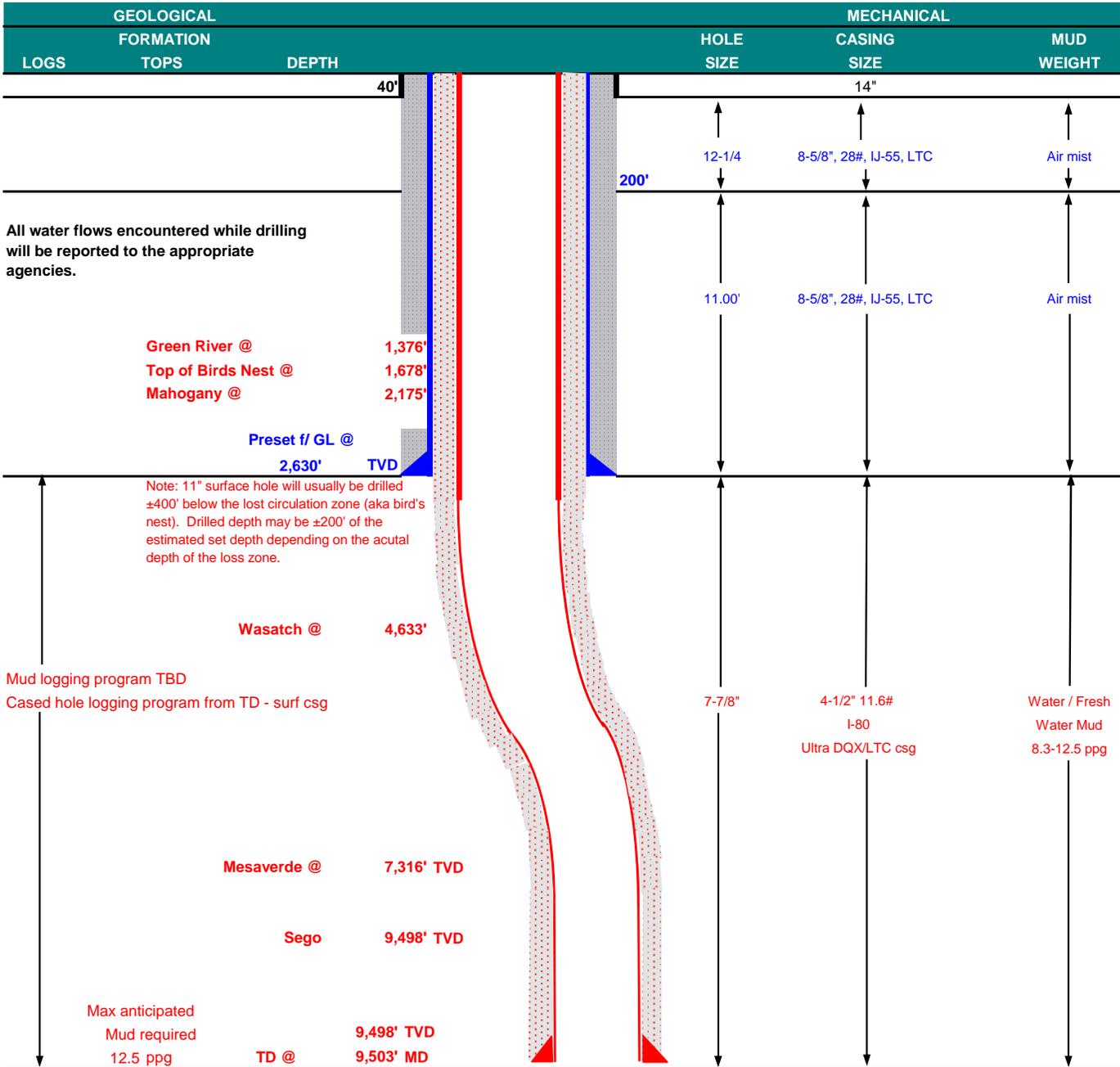
Kenny Gathings / Lovel Young

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 921-36C4BS		TD	9,498'	9,503' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah
SURFACE LOCATION	NENW	645 FNL	2007 FWL	Sec 36 T 9S R 21E	FINISHED ELEVATION 4,988'
	Latitude: 39.998004		Longitude: -109.501634		NAD 27
BTM HOLE LOCATION	NENW	745 FNL	2143 FWL	Sec 36 T 9S R 21E	
	Latitude: 39.99773		Longitude: -109.501149		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 2,630	28.00	IJ-55	LTC	2.05	1.53	5.40	N/A
PRODUCTION	4-1/2"	0	to 5,000	11.60	I-80	DQX	7,780	6,350		267,035
							7,780	6,350	223,000	2.99
	4-1/2"	5,000	to 9,503'	11.60	I-80	LTC	1.11	1.03	5.28	

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 Option 1	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80		1.15
	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 Option 2	LEAD	2,130'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	200	35%	11.00		3.82
	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	4,133'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	320	35%	12.00		3.38
	TAIL	5,370'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,270	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

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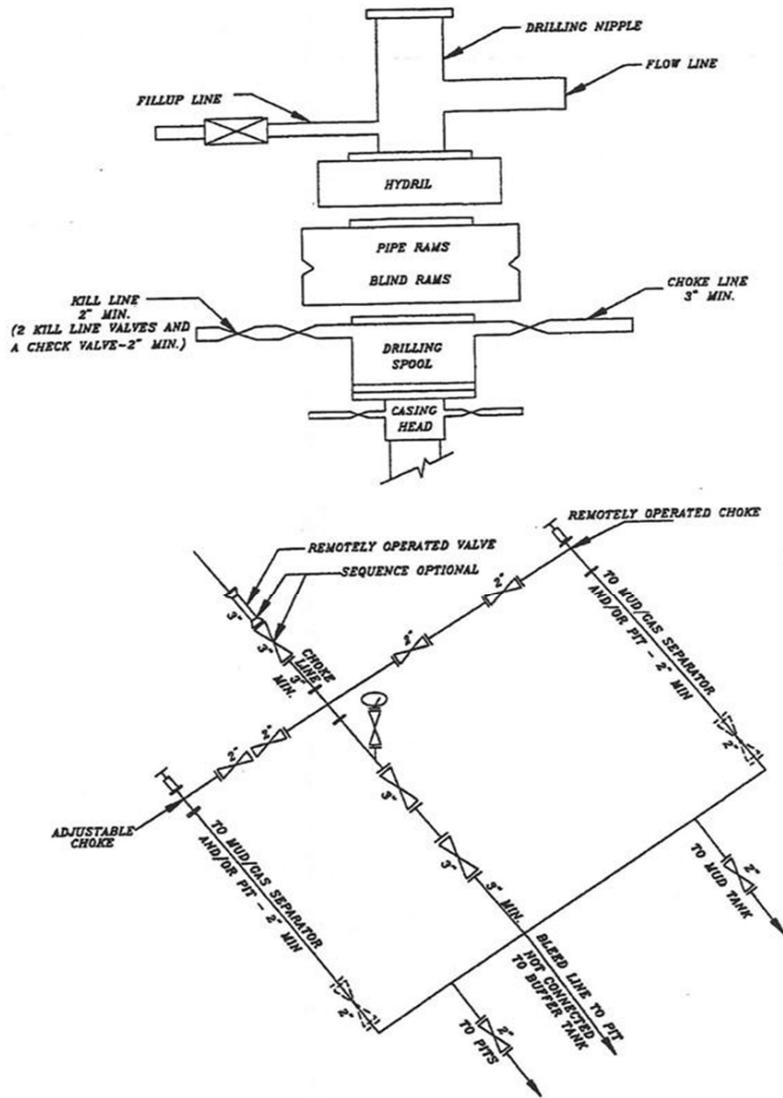
DRILLING ENGINEER: _____
Nick Spence / Danny Showers / Chad Loesel

DATE: _____

DRILLING SUPERINTENDENT: _____
Kenny Gathings / Lovel Young

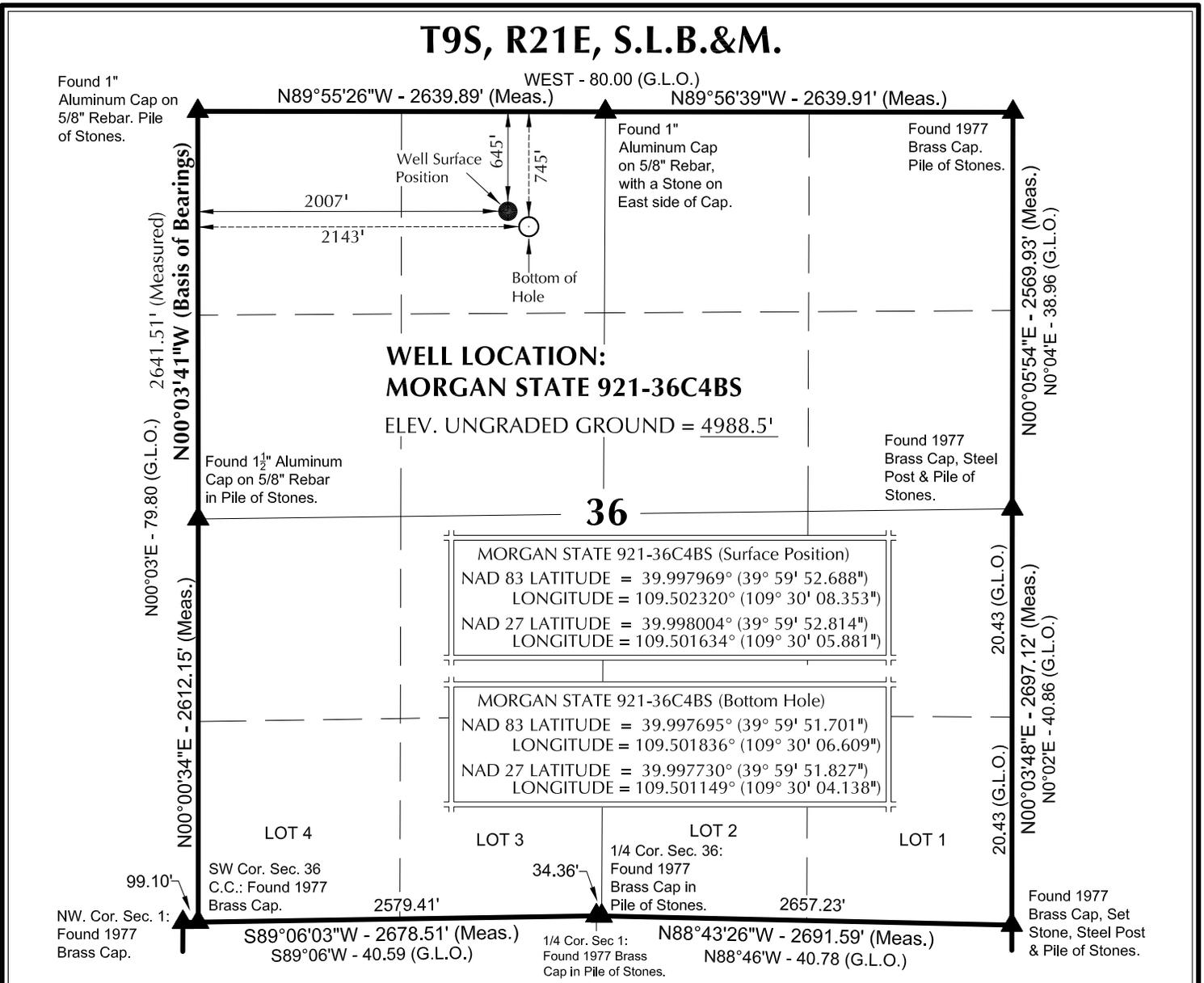
DATE: _____

EXHIBIT A
MORGAN STATE 921-36C4BS



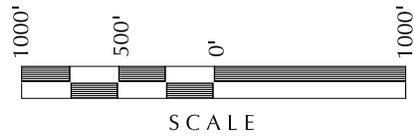
SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

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



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 S53°37'53"E 168.52' 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 1/4 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
 No. 6028691
 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 921-36C4BS
 WELL PLAT**
 745' FNL, 2143' FWL (Bottom Hole)
 NE 1/4 NW 1/4 OF SECTION 36, T9S, R21E,
 S.L.B.&M., UTAH COUNTY, UTAH.

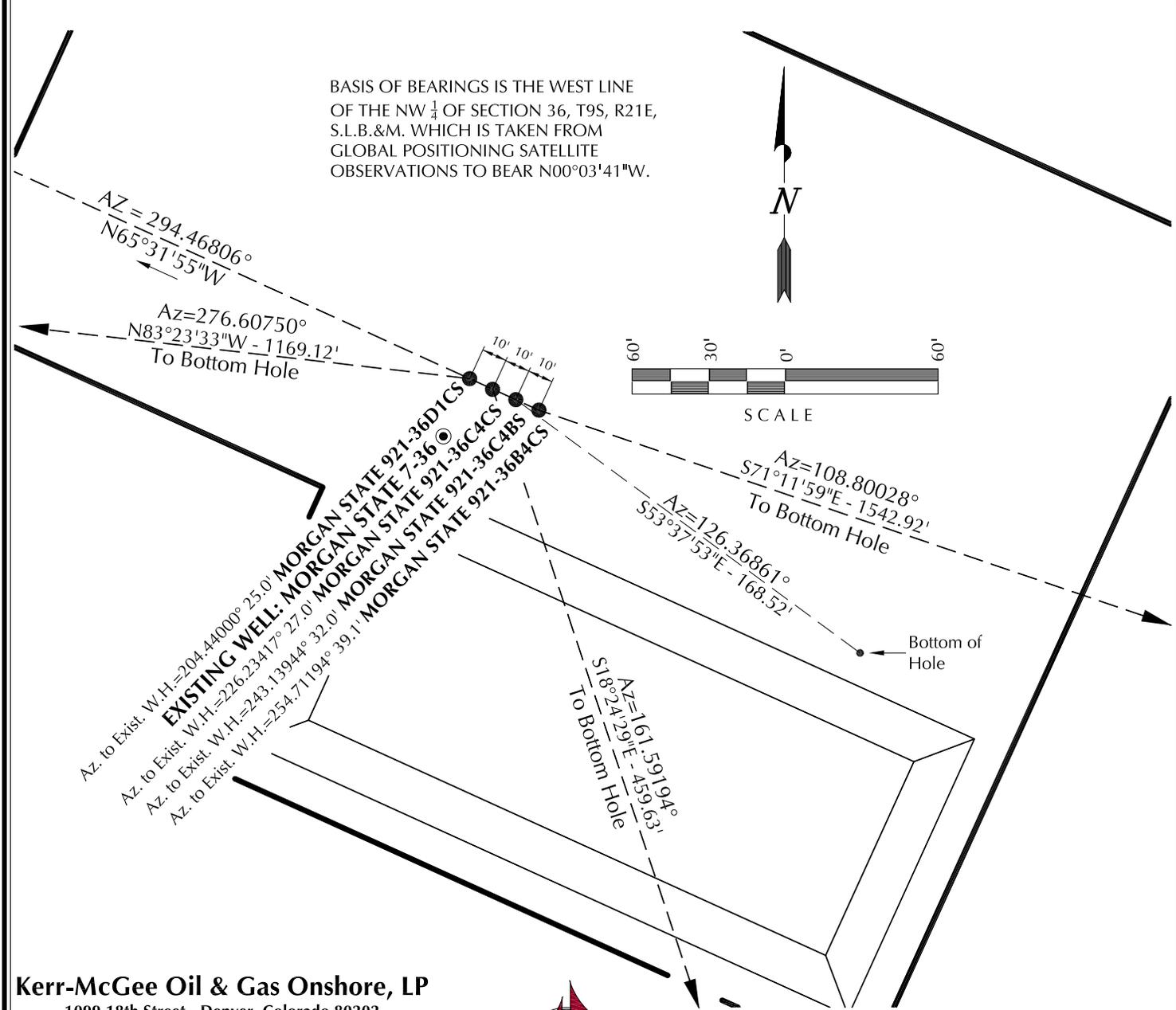
609
CONSULTING, LLC
 2155 North Main Street
 Sheridan WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

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: 2
DATE DRAWN: 11-02-11	DRAWN BY: T.J.R.	
SCALE: 1" = 1000'		2 OF 16

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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1099 18th Street - Denver, Colorado 80202

WELL PAD - MORGAN STATE 921-36C

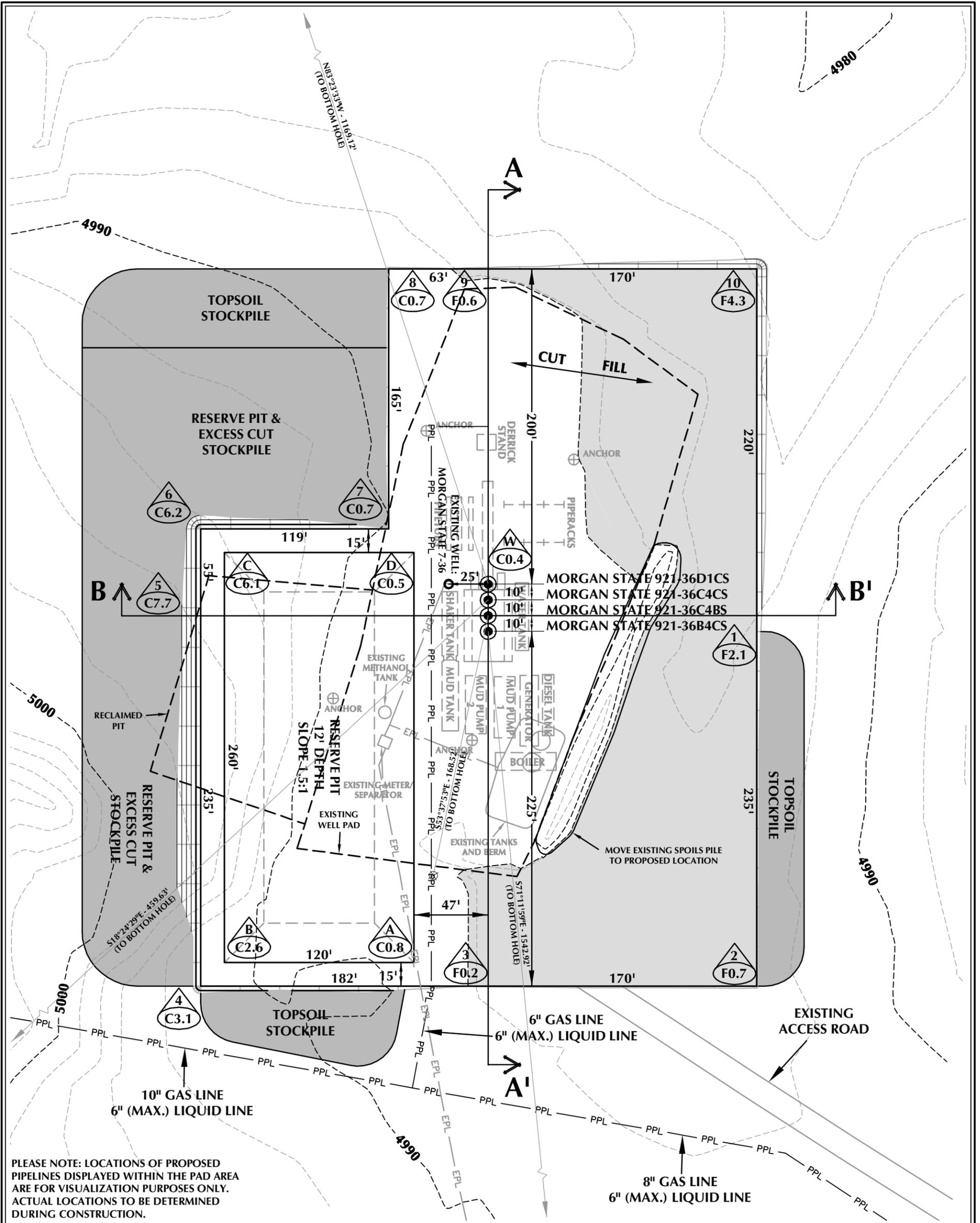
WELL PAD INTERFERENCE PLAT
WELLS - MORGAN STATE 921-36B4CS,
MORGAN STATE 921-36C4BS,
MORGAN STATE 921-36C4CS &
MORGAN STATE 921-36D1CS
LOCATED IN SECTION 36, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH.



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: 5 5 OF 16
DATE DRAWN: 11-02-11	DRAWN BY: T.J.R.	
SCALE: 1" = 60'	Date Last Revised:	



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



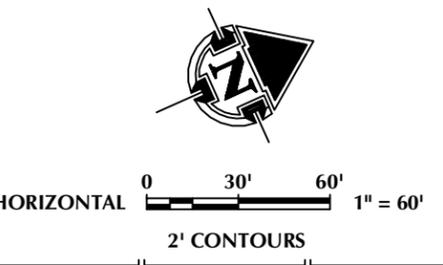
CONSULTING, LLC
 2155 North Main Street
 Sheridan, WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

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.

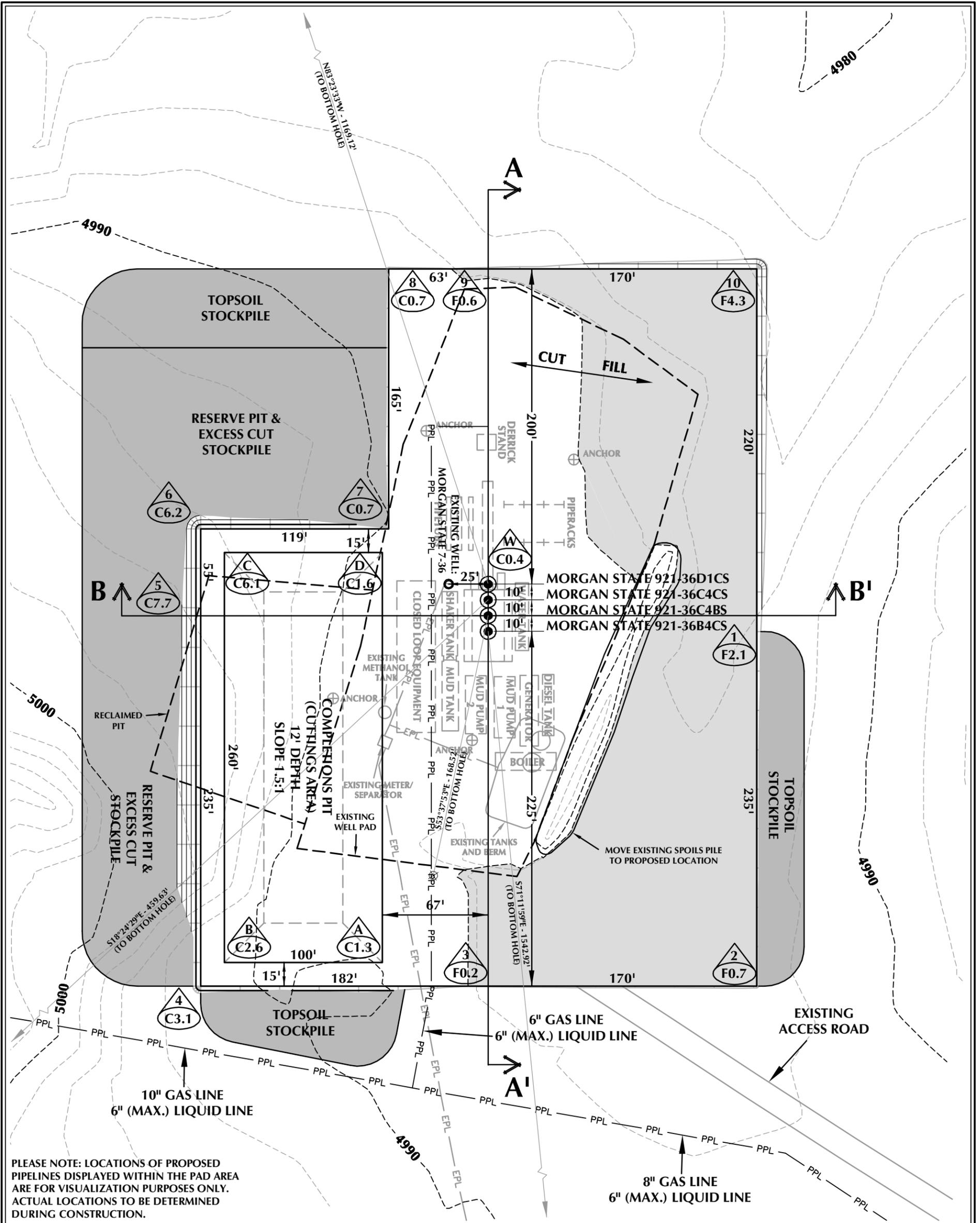
RESERVE PIT QUANTITIES
 TOTAL CUT FOR RESERVE PIT
 +/- 11,020 C.Y.
 RESERVE PIT CAPACITY (2' OF FREEBOARD)
 +/- 42,290 BARRELS

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- 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



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

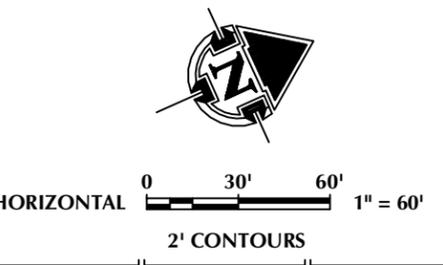


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 Phone 307-674-0609
 Fax 307-674-0182

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.

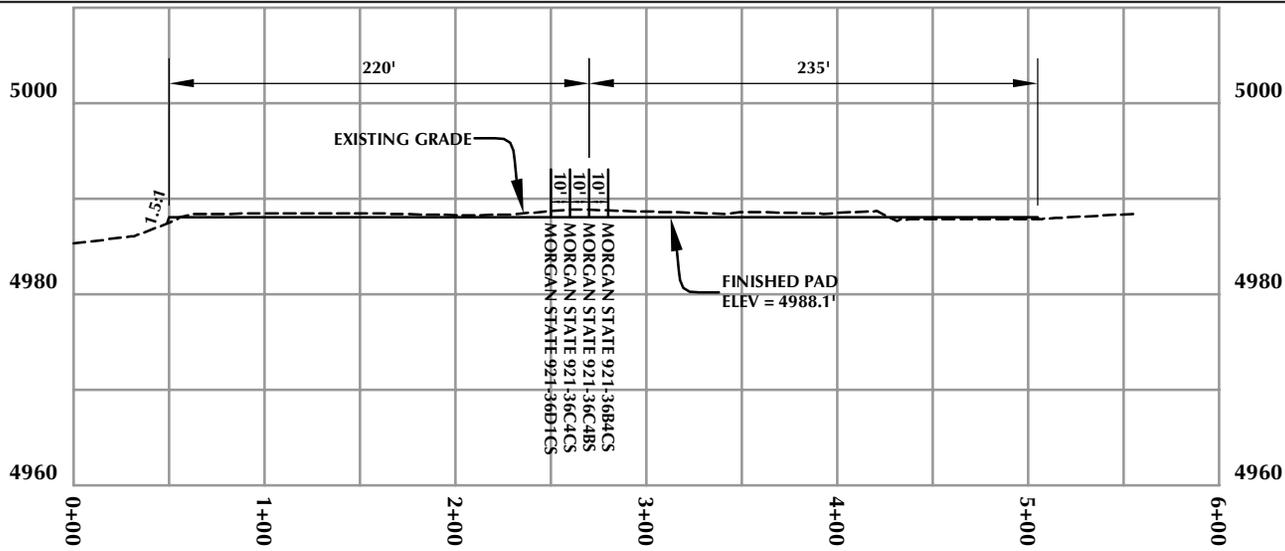
COMPLETIONS PIT QUANTITIES
 TOTAL CUT FOR COMPLETIONS PIT
 +/- 8,870 C.Y.
 COMPLETIONS PIT CAPACITY
 (2' OF FREEBOARD)
 +/- 33,770 BARRELS

- 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

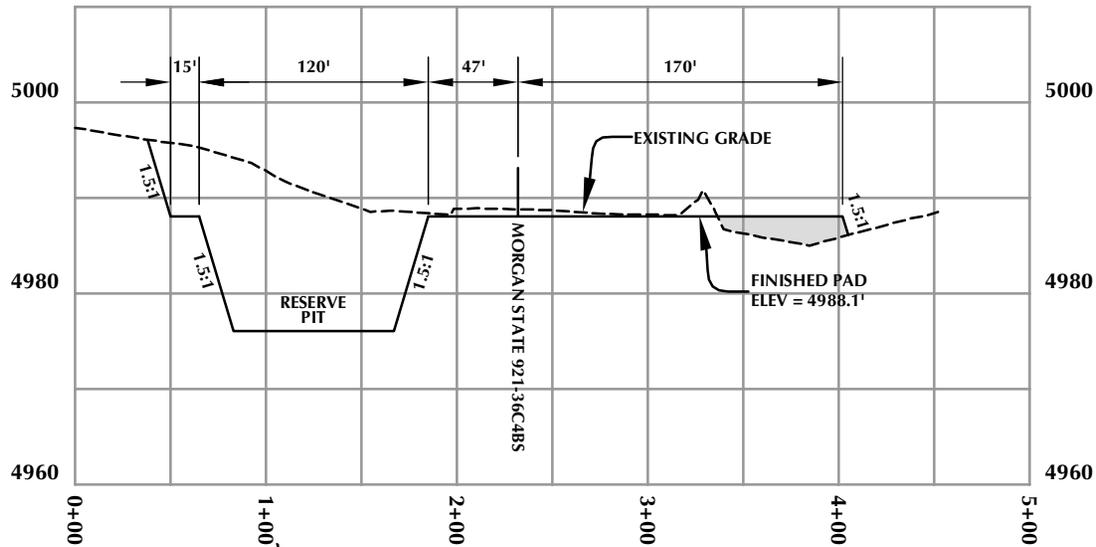


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SCALE: 1"=60' DATE: 11/15/11 SHEET NO: **6B** 6B OF 16
 REVISED:



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'

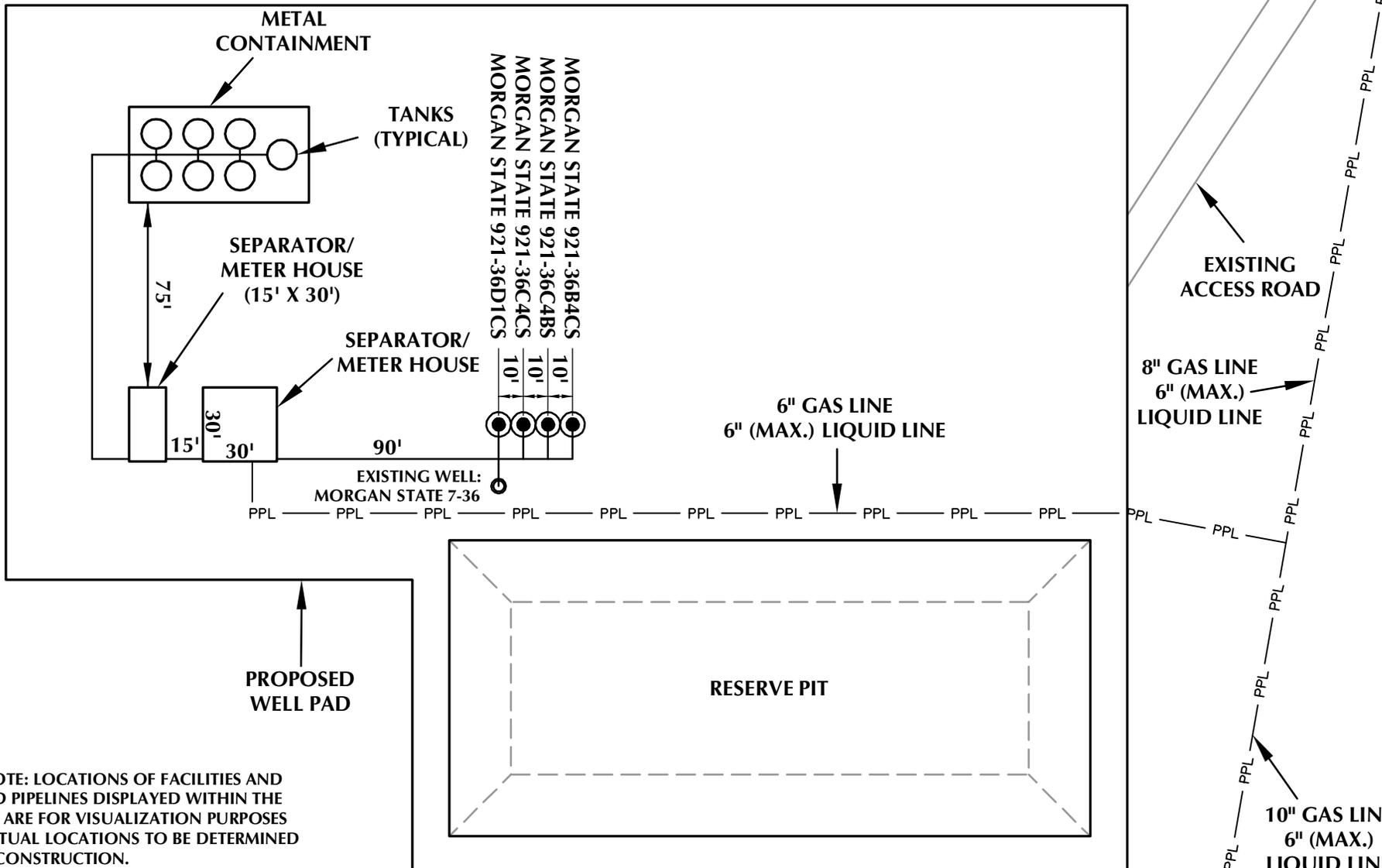
Date: 11/11/11

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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Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PPL — PROPOSED PIPELINE
- EPL — EXISTING PIPELINE



HORIZONTAL 1" = 60'

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

SHEET NO:
8 8 OF 16

K:\MADRARD\2011\11\2011_65_NBU_FOCUS_921-36C\MORGAN STATE 921-36C\MORGAN STATE 921-36C.dwg, 11/22/2011 3:04:59 PM, ghty

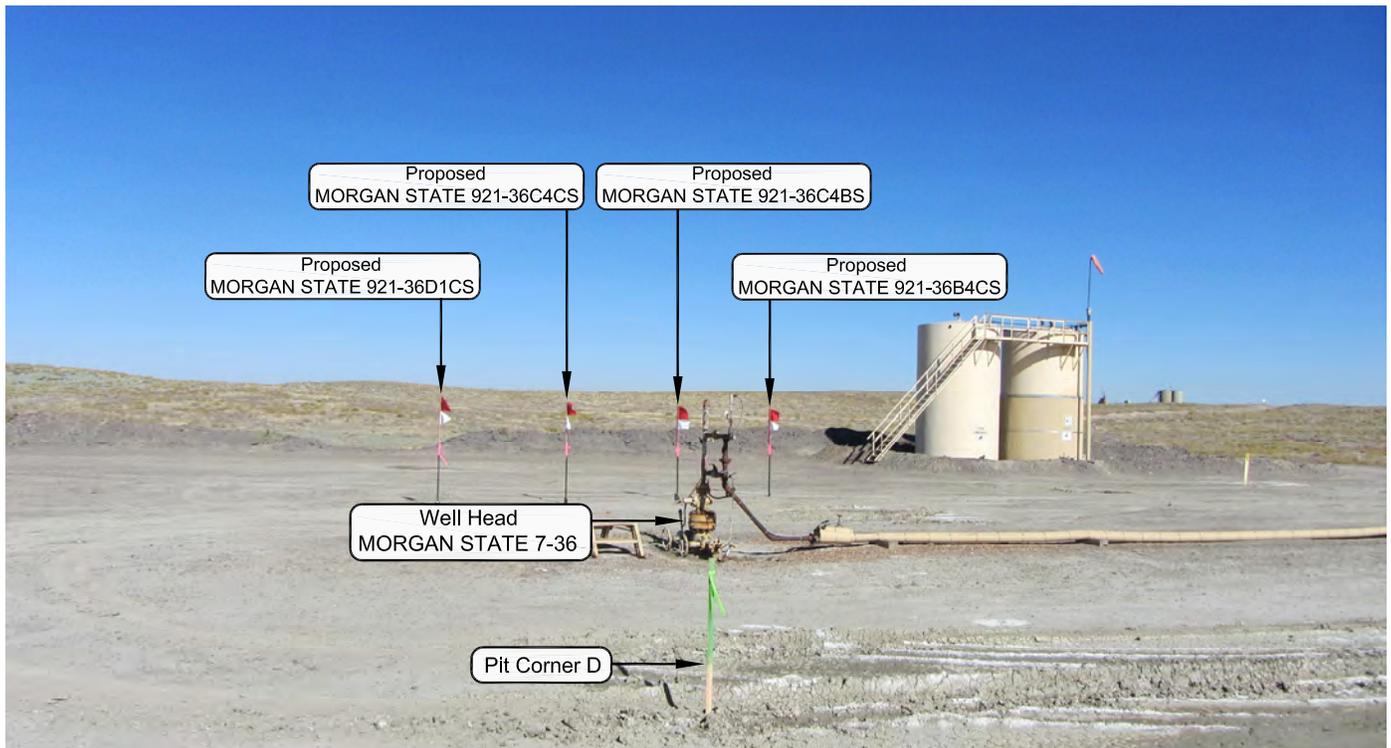


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO VIEW: FROM EXISTING ACCESS ROAD

CAMERA ANGLE: SOUTHWESTERLY

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WELL PAD - MORGAN STATE 921-36C

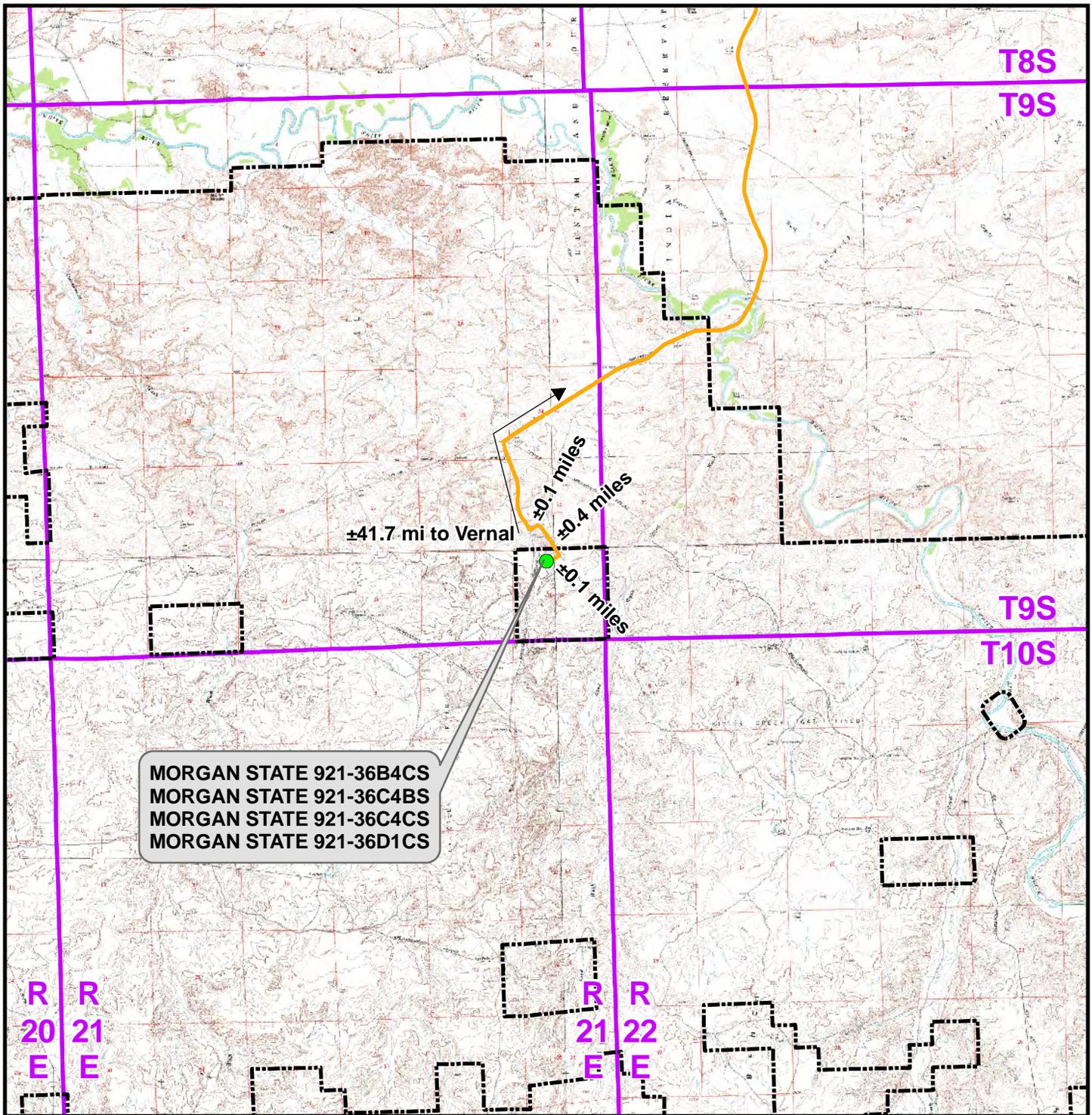
LOCATION PHOTOS
 MORGAN STATE 921-36B4CS,
 MORGAN STATE 921-36C4BS,
 MORGAN STATE 921-36C4CS &
 MORGAN STATE 921-36D1CS
 LOCATED IN SECTION 36, T9S, R21E,
 S.L.B.&M., Uintah County, Utah.



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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

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

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 Denver, Colorado 80202



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



SCALE: 1:100,000

NAD83 USP Central

SHEET NO:

DRAWN: TL

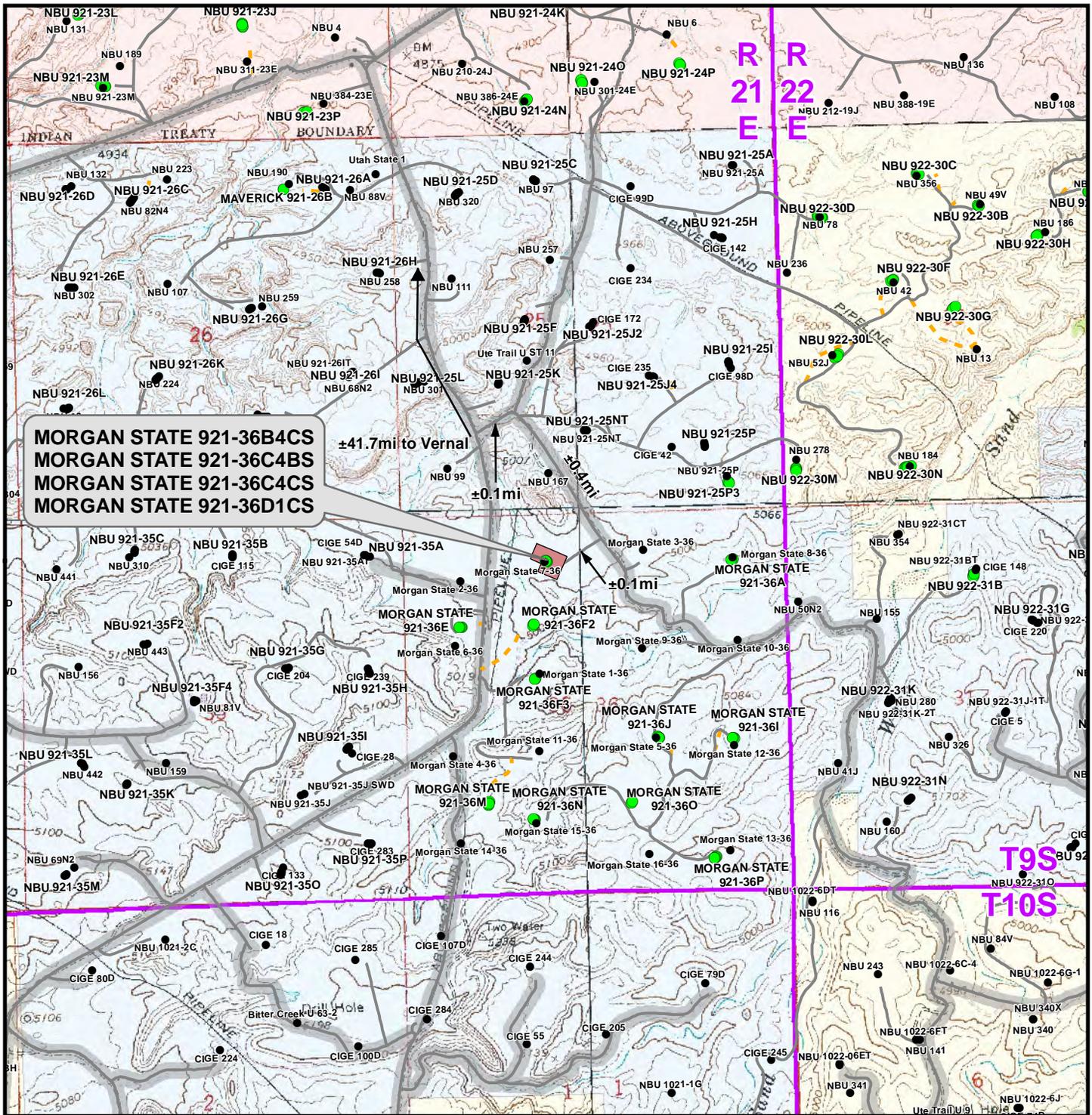
DATE: 11 Nov 2011

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

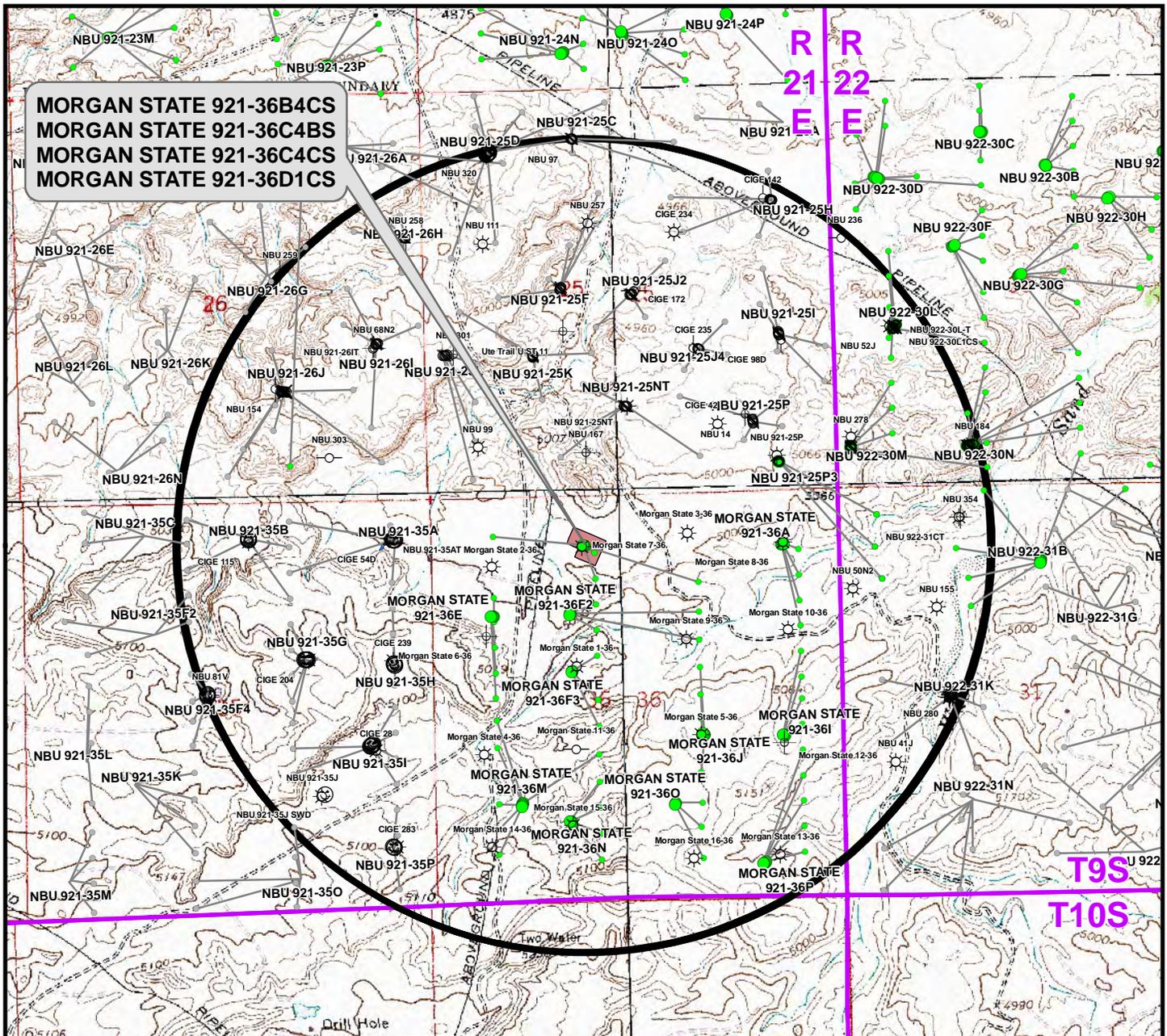
TOPO B
 MORGAN STATE 921-36B4CS,
 MORGAN STATE 921-36C4BS,
 MORGAN STATE 921-36C4CS &
 MORGAN STATE 921-36D1CS
 LOCATED IN SECTION 36, T9S, R21E,
 S.L.B.&M., Uintah County, Utah

**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	SHEET NO:
DRAWN: TL	DATE: 11 Nov 2011	11
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
- Bottom Hole - Proposed
- Bottom Hole - Existing
- Well Path
- Well Pad
- Well - 1 Mile Radius
- ☀ Producing
- ☺ Spudded
- APD Approved
- ⊗ Preliminary Location
- ⊕ Deferred
- ✕ Cancelled
- ⊖ Temporarily Abandoned
- ☀ Active Injector
- ⊖ Location Abandoned
- ⊖ Plugged & 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

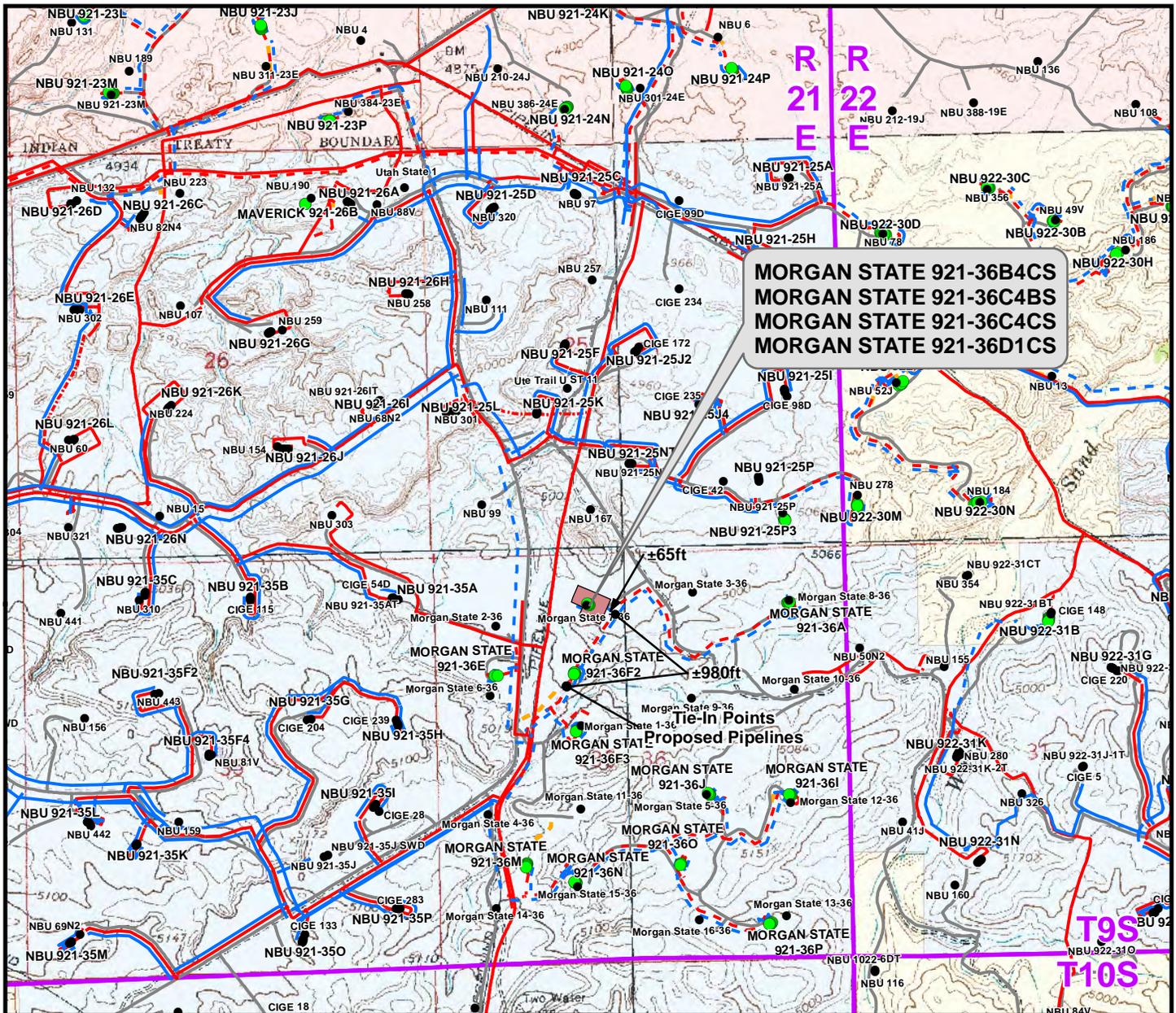
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 1099 18th Street
 Denver, Colorado 80202



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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	Proposed Gas Pipeline	Length
Buried 6" (Max.) (Meter House to Edge of Pad)	±390ft	Buried 6" (Meter House to Edge of Pad)	±390ft
Buried 6" (Max.) (Edge of Pad to 36A Intersection)	±65ft	Buried 6" (Edge of Pad to 36A Intersection)	±65ft
Buried 6" (Max.) (36A Intersection to 36F2 Intersection)	±980ft	Buried 10" (36A Intersection to 36F2 Intersection)	±980ft
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±1,435ft	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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Denver, Colorado 80202

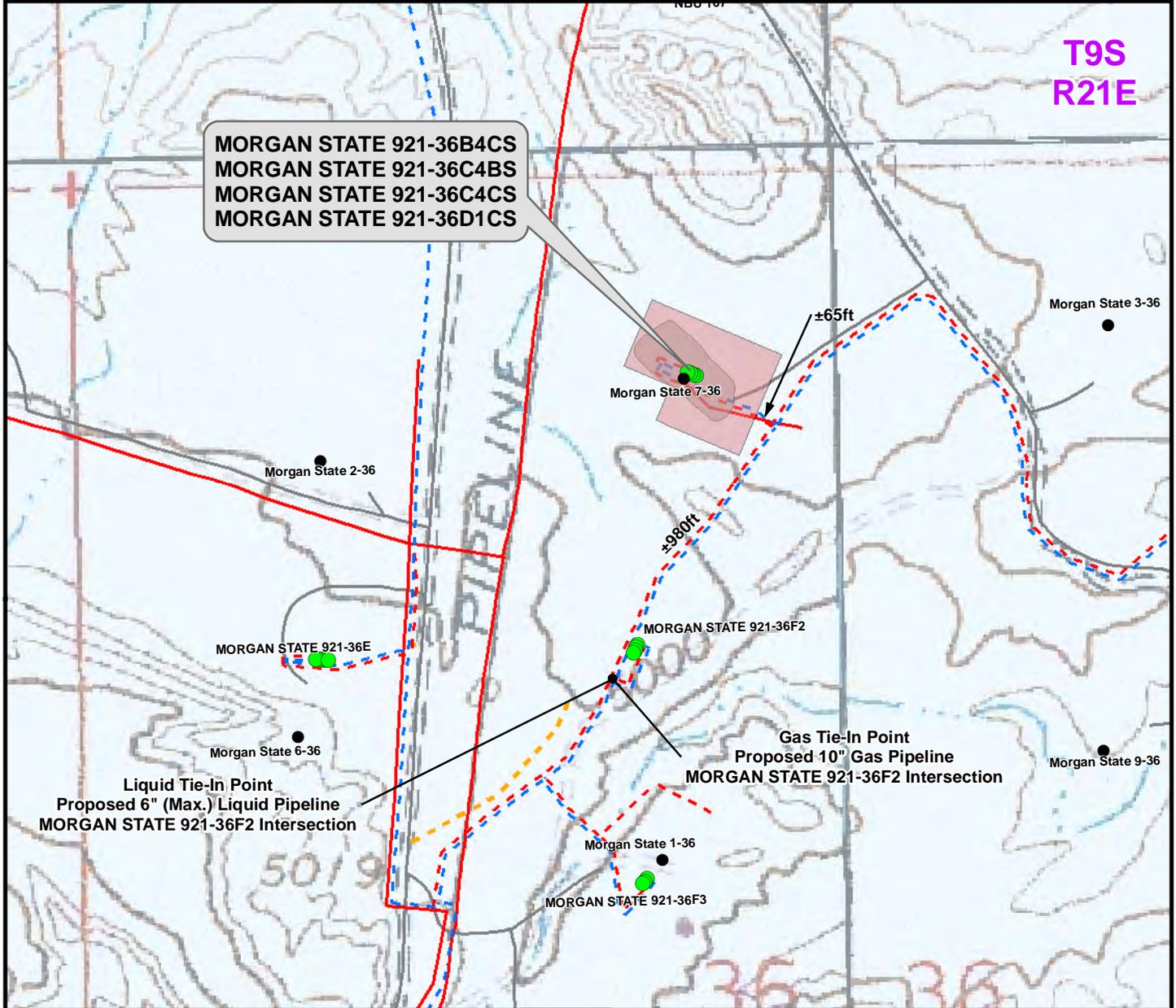


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Sheridan, Wyoming 82801
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Fax 307-674-0182

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 Pad - Proposed - - - Gas Pipeline - Proposed - - - Liquid Pipeline - Proposed - - - Road - Proposed ■ Bureau of Land Management
- Well - Existing ■ Well Pad - Existing - - - Gas Pipeline - To Be Upgraded - - - Liquid Pipeline - Existing - - - Road - Existing ■ Indian Reservation
- - - Gas Pipeline - Existing - - - 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.**

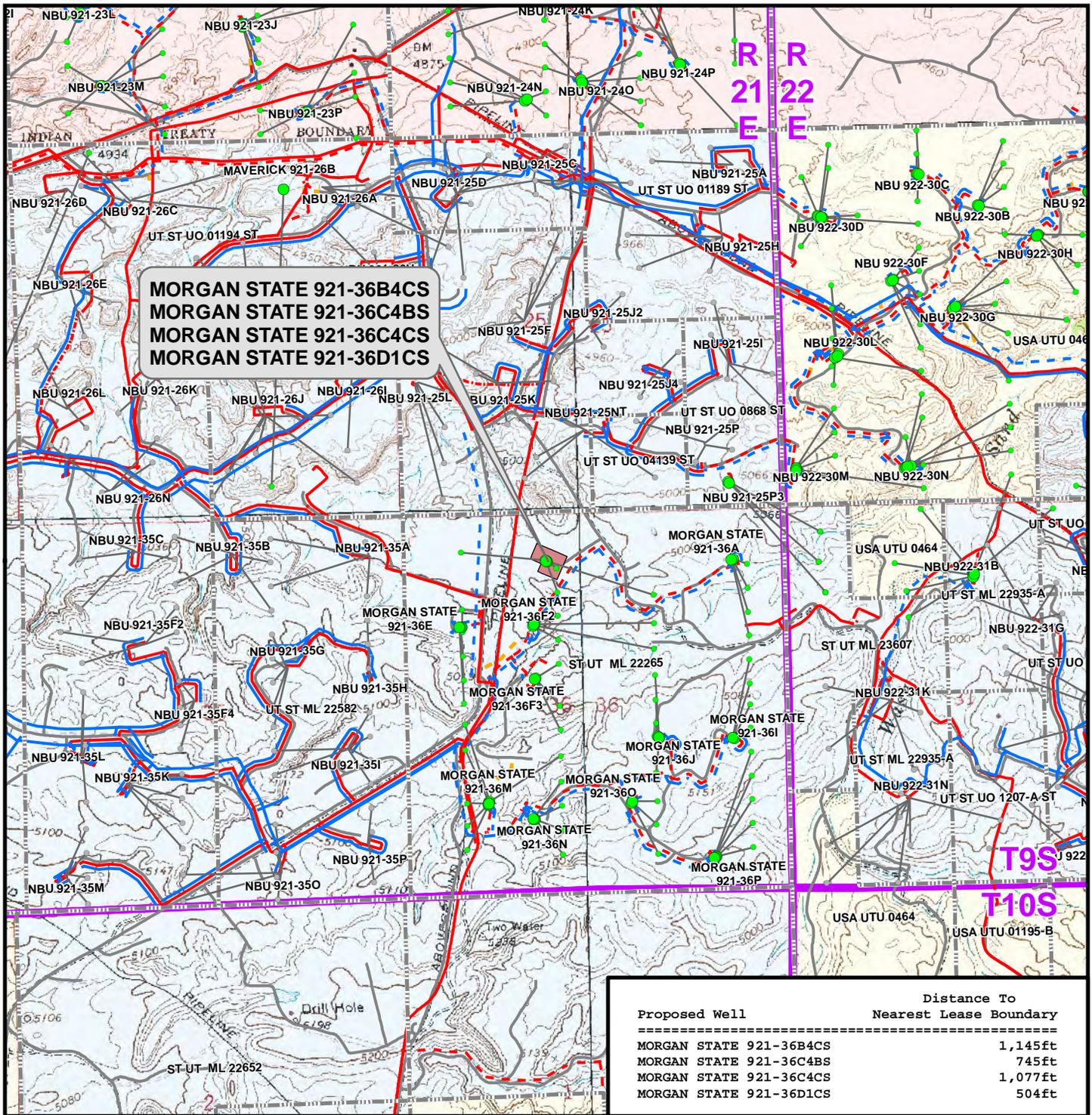
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Denver, Colorado 80202



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Sheridan, Wyoming 82801
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Fax 307-674-0182



SCALE: 1" = 500ft	NAD83 USP Central	14 14 OF 16
DRAWN: TL	DATE: 11 Nov 2011	
REVISED:	DATE:	



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

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 Denver, Colorado 80202



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 Fax 307-674-0182

SCALE: 1" = 2,000ft

DRAWN: TL

REVISED:

NAD83 USP Central

DATE: 11 Nov 2011

DATE:

SHEET NO:

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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.

WELL DETAILS: MORGAN STATE 921-36C4BS

GL 4988 & KB 4 @ 4992.00ft (ASSUMED)

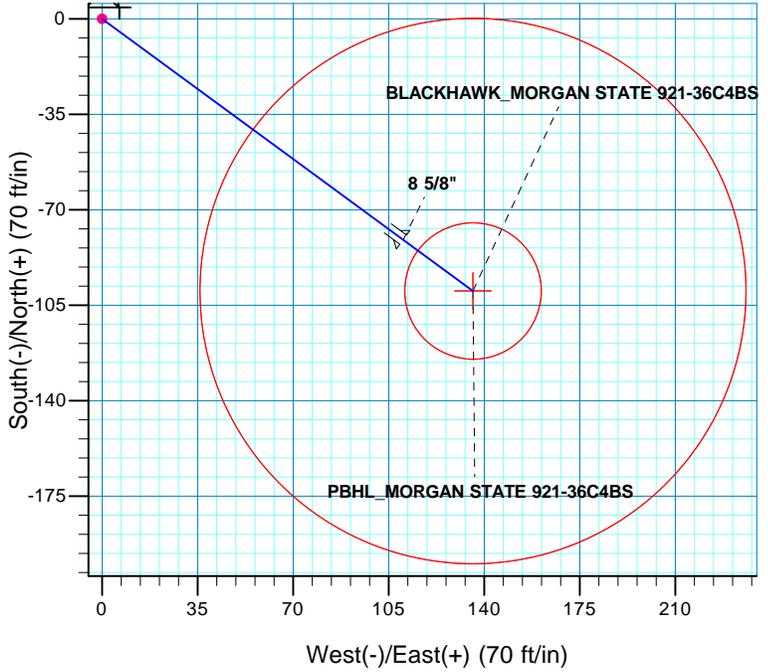
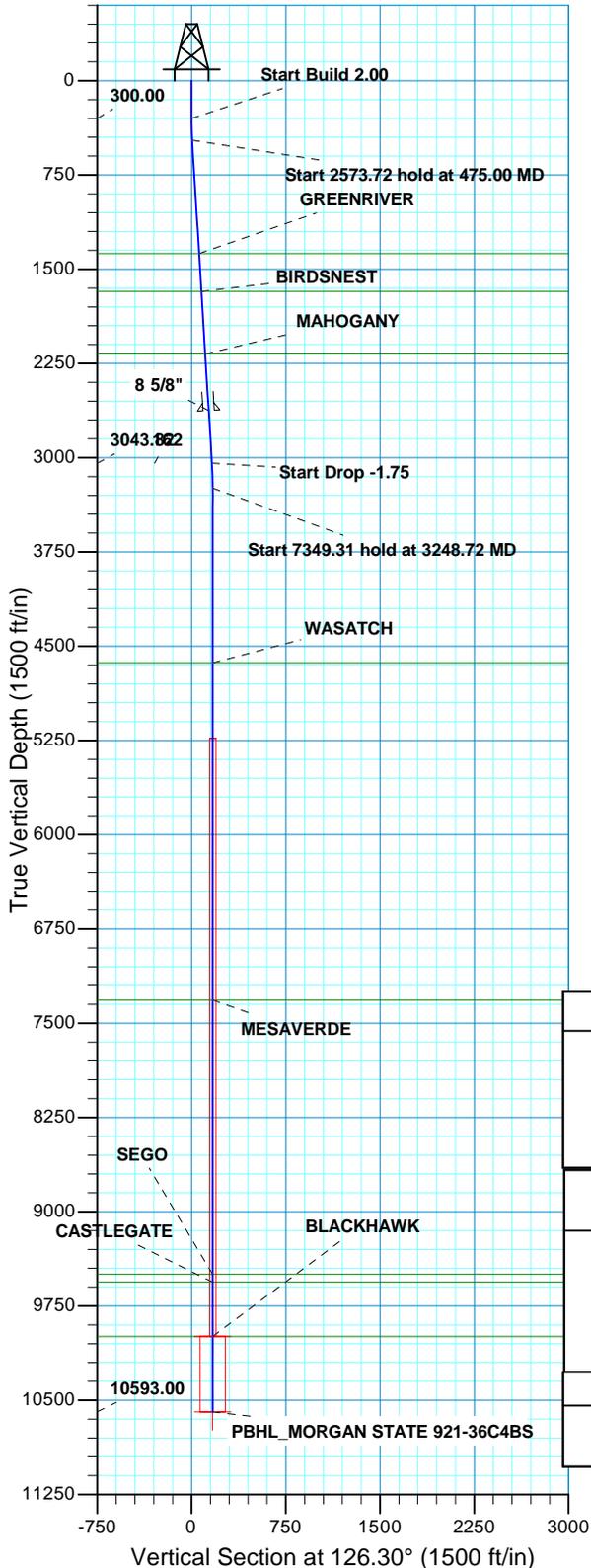
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14528844.98	2060067.14	39° 59' 52.814 N	109° 30' 5.882 W

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
BLACKHAWK	9993.00	-99.79	135.86	14528747.48	2060204.66	39° 59' 51.828 N	109° 30' 4.136 W	Circle (Radius: 25.00)
- plan hits target center								
PBHL	10593.00	-99.79	135.86	14528747.48	2060204.66	39° 59' 51.828 N	109° 30' 4.136 W	Circle (Radius: 100.00)
- plan hits target center								

Azimuths to True North
Magnetic North: 11.02°

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



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	
475.00	3.50	126.30	474.89	-3.16	4.31	2.00	126.30	5.34	
3048.72	3.50	126.30	3043.82	-96.18	130.94	0.00	0.00	162.47	
3248.72	0.00	0.00	3243.69	-99.79	135.86	1.75	180.00	168.57	
10598.03	0.00	0.00	10593.00	-99.79	135.86	0.00	0.00	168.57	PBHL_MORGAN STATE 921-36C4BS

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)	1376.00	1377.79	1377.79	GREENRIVER
Ellipsoid: Clarke 1866	1678.00	1680.36	1680.36	BIRDSNEST
Zone: Zone 12N (114 W to 108 W)	2175.00	2178.29	2178.29	MAHOGANY
Location: SECTION 36 T9S R21E	4633.00	4638.03	4638.03	WASATCH
System Datum: Mean Sea Level	7316.00	7321.03	7321.03	MESAVERDE
	9498.00	9503.03	9503.03	SEGO
	9560.00	9565.03	9565.03	CASTLEGATE
	9993.00	9998.03	9998.03	BLACKHAWK

CASING DETAILS			
TVD	MD	Name	Size
2625.00	2629.13	8 5/8"	8.625

RECEIVED :



Scientific Drilling
Rocky Mountain Operations

US ROCKIES REGION PLANNING

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

MORGAN STATE 921-36C PAD

MORGAN STATE 921-36C4BS

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 921-36C4BS
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 921-36C4BS	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 921-36C4BS, 645 FNL 2007 FWL					
Well Position	+N/-S	4.37 ft	Northing:	14,528,844.98 usft	Latitude:	39° 59' 52.814 N
	+E/-W	-9.24 ft	Easting:	2,060,067.14 usft	Longitude:	109° 30' 5.882 W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,988.00 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	126.30

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	
475.00	3.50	126.30	474.89	-3.16	4.31	2.00	2.00	0.00	126.30	
3,048.72	3.50	126.30	3,043.82	-96.18	130.94	0.00	0.00	0.00	0.00	
3,248.72	0.00	0.00	3,243.69	-99.79	135.86	1.75	-1.75	0.00	180.00	
10,598.03	0.00	0.00	10,593.00	-99.79	135.86	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 921-36C4BS
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 921-36C4BS	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	0.00
100.00	0.00	0.00	100.00	0.00	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	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00										
400.00	2.00	126.30	399.98	-1.03	1.41	1.75	2.00	2.00	0.00	
475.00	3.50	126.30	474.89	-3.16	4.31	5.34	2.00	2.00	0.00	
Start 2573.72 hold at 475.00 MD										
500.00	3.50	126.30	499.84	-4.07	5.54	6.87	0.00	0.00	0.00	
600.00	3.50	126.30	599.66	-7.68	10.46	12.97	0.00	0.00	0.00	
700.00	3.50	126.30	699.47	-11.29	15.38	19.08	0.00	0.00	0.00	
800.00	3.50	126.30	799.29	-14.91	20.30	25.18	0.00	0.00	0.00	
900.00	3.50	126.30	899.10	-18.52	25.22	31.29	0.00	0.00	0.00	
1,000.00	3.50	126.30	998.91	-22.14	30.14	37.39	0.00	0.00	0.00	
1,100.00	3.50	126.30	1,098.73	-25.75	35.06	43.50	0.00	0.00	0.00	
1,200.00	3.50	126.30	1,198.54	-29.36	39.98	49.60	0.00	0.00	0.00	
1,300.00	3.50	126.30	1,298.35	-32.98	44.90	55.71	0.00	0.00	0.00	
1,377.79	3.50	126.30	1,376.00	-35.79	48.73	60.46	0.00	0.00	0.00	
GREENRIVER										
1,400.00	3.50	126.30	1,398.17	-36.59	49.82	61.81	0.00	0.00	0.00	
1,500.00	3.50	126.30	1,497.98	-40.21	54.74	67.92	0.00	0.00	0.00	
1,600.00	3.50	126.30	1,597.79	-43.82	59.66	74.02	0.00	0.00	0.00	
1,680.36	3.50	126.30	1,678.00	-46.72	63.61	78.93	0.00	0.00	0.00	
BIRDSNEST										
1,700.00	3.50	126.30	1,697.61	-47.43	64.58	80.13	0.00	0.00	0.00	
1,800.00	3.50	126.30	1,797.42	-51.05	69.50	86.23	0.00	0.00	0.00	
1,900.00	3.50	126.30	1,897.23	-54.66	74.42	92.34	0.00	0.00	0.00	
2,000.00	3.50	126.30	1,997.05	-58.28	79.34	98.44	0.00	0.00	0.00	
2,100.00	3.50	126.30	2,096.86	-61.89	84.26	104.55	0.00	0.00	0.00	
2,178.29	3.50	126.30	2,175.00	-64.72	88.11	109.33	0.00	0.00	0.00	
MAHOGANY										
2,200.00	3.50	126.30	2,196.67	-65.50	89.18	110.65	0.00	0.00	0.00	
2,300.00	3.50	126.30	2,296.49	-69.12	94.10	116.76	0.00	0.00	0.00	
2,400.00	3.50	126.30	2,396.30	-72.73	99.02	122.86	0.00	0.00	0.00	
2,500.00	3.50	126.30	2,496.11	-76.35	103.94	128.97	0.00	0.00	0.00	
2,600.00	3.50	126.30	2,595.93	-79.96	108.86	135.07	0.00	0.00	0.00	
2,629.13	3.50	126.30	2,625.00	-81.01	110.29	136.85	0.00	0.00	0.00	
8 5/8"										
2,700.00	3.50	126.30	2,695.74	-83.57	113.78	141.18	0.00	0.00	0.00	
2,800.00	3.50	126.30	2,795.55	-87.19	118.70	147.28	0.00	0.00	0.00	
2,900.00	3.50	126.30	2,895.37	-90.80	123.62	153.39	0.00	0.00	0.00	
3,000.00	3.50	126.30	2,995.18	-94.42	128.54	159.49	0.00	0.00	0.00	
3,048.72	3.50	126.30	3,043.82	-96.18	130.94	162.47	0.00	0.00	0.00	
Start Drop -1.75										
3,100.00	2.60	126.30	3,095.02	-97.79	133.14	165.19	1.75	-1.75	0.00	
3,200.00	0.85	126.30	3,194.97	-99.58	135.57	168.21	1.75	-1.75	0.00	
3,248.72	0.00	0.00	3,243.69	-99.79	135.86	168.57	1.75	-1.75	0.00	
Start 7349.31 hold at 3248.72 MD										
3,300.00	0.00	0.00	3,294.97	-99.79	135.86	168.57	0.00	0.00	0.00	
3,400.00	0.00	0.00	3,394.97	-99.79	135.86	168.57	0.00	0.00	0.00	
3,500.00	0.00	0.00	3,494.97	-99.79	135.86	168.57	0.00	0.00	0.00	
3,600.00	0.00	0.00	3,594.97	-99.79	135.86	168.57	0.00	0.00	0.00	
3,700.00	0.00	0.00	3,694.97	-99.79	135.86	168.57	0.00	0.00	0.00	



SDI
Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well MORGAN STATE 921-36C4BS
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 921-36C4BS	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)
3,800.00	0.00	0.00	3,794.97	-99.79	135.86	168.57	0.00	0.00	0.00
3,900.00	0.00	0.00	3,894.97	-99.79	135.86	168.57	0.00	0.00	0.00
4,000.00	0.00	0.00	3,994.97	-99.79	135.86	168.57	0.00	0.00	0.00
4,100.00	0.00	0.00	4,094.97	-99.79	135.86	168.57	0.00	0.00	0.00
4,200.00	0.00	0.00	4,194.97	-99.79	135.86	168.57	0.00	0.00	0.00
4,300.00	0.00	0.00	4,294.97	-99.79	135.86	168.57	0.00	0.00	0.00
4,400.00	0.00	0.00	4,394.97	-99.79	135.86	168.57	0.00	0.00	0.00
4,500.00	0.00	0.00	4,494.97	-99.79	135.86	168.57	0.00	0.00	0.00
4,600.00	0.00	0.00	4,594.97	-99.79	135.86	168.57	0.00	0.00	0.00
4,638.03	0.00	0.00	4,633.00	-99.79	135.86	168.57	0.00	0.00	0.00
WASATCH									
4,700.00	0.00	0.00	4,694.97	-99.79	135.86	168.57	0.00	0.00	0.00
4,800.00	0.00	0.00	4,794.97	-99.79	135.86	168.57	0.00	0.00	0.00
4,900.00	0.00	0.00	4,894.97	-99.79	135.86	168.57	0.00	0.00	0.00
5,000.00	0.00	0.00	4,994.97	-99.79	135.86	168.57	0.00	0.00	0.00
5,100.00	0.00	0.00	5,094.97	-99.79	135.86	168.57	0.00	0.00	0.00
5,200.00	0.00	0.00	5,194.97	-99.79	135.86	168.57	0.00	0.00	0.00
5,300.00	0.00	0.00	5,294.97	-99.79	135.86	168.57	0.00	0.00	0.00
5,400.00	0.00	0.00	5,394.97	-99.79	135.86	168.57	0.00	0.00	0.00
5,500.00	0.00	0.00	5,494.97	-99.79	135.86	168.57	0.00	0.00	0.00
5,600.00	0.00	0.00	5,594.97	-99.79	135.86	168.57	0.00	0.00	0.00
5,700.00	0.00	0.00	5,694.97	-99.79	135.86	168.57	0.00	0.00	0.00
5,800.00	0.00	0.00	5,794.97	-99.79	135.86	168.57	0.00	0.00	0.00
5,900.00	0.00	0.00	5,894.97	-99.79	135.86	168.57	0.00	0.00	0.00
6,000.00	0.00	0.00	5,994.97	-99.79	135.86	168.57	0.00	0.00	0.00
6,100.00	0.00	0.00	6,094.97	-99.79	135.86	168.57	0.00	0.00	0.00
6,200.00	0.00	0.00	6,194.97	-99.79	135.86	168.57	0.00	0.00	0.00
6,300.00	0.00	0.00	6,294.97	-99.79	135.86	168.57	0.00	0.00	0.00
6,400.00	0.00	0.00	6,394.97	-99.79	135.86	168.57	0.00	0.00	0.00
6,500.00	0.00	0.00	6,494.97	-99.79	135.86	168.57	0.00	0.00	0.00
6,600.00	0.00	0.00	6,594.97	-99.79	135.86	168.57	0.00	0.00	0.00
6,700.00	0.00	0.00	6,694.97	-99.79	135.86	168.57	0.00	0.00	0.00
6,800.00	0.00	0.00	6,794.97	-99.79	135.86	168.57	0.00	0.00	0.00
6,900.00	0.00	0.00	6,894.97	-99.79	135.86	168.57	0.00	0.00	0.00
7,000.00	0.00	0.00	6,994.97	-99.79	135.86	168.57	0.00	0.00	0.00
7,100.00	0.00	0.00	7,094.97	-99.79	135.86	168.57	0.00	0.00	0.00
7,200.00	0.00	0.00	7,194.97	-99.79	135.86	168.57	0.00	0.00	0.00
7,300.00	0.00	0.00	7,294.97	-99.79	135.86	168.57	0.00	0.00	0.00
7,321.03	0.00	0.00	7,316.00	-99.79	135.86	168.57	0.00	0.00	0.00
MESAVERDE									
7,400.00	0.00	0.00	7,394.97	-99.79	135.86	168.57	0.00	0.00	0.00
7,500.00	0.00	0.00	7,494.97	-99.79	135.86	168.57	0.00	0.00	0.00
7,600.00	0.00	0.00	7,594.97	-99.79	135.86	168.57	0.00	0.00	0.00
7,700.00	0.00	0.00	7,694.97	-99.79	135.86	168.57	0.00	0.00	0.00
7,800.00	0.00	0.00	7,794.97	-99.79	135.86	168.57	0.00	0.00	0.00
7,900.00	0.00	0.00	7,894.97	-99.79	135.86	168.57	0.00	0.00	0.00
8,000.00	0.00	0.00	7,994.97	-99.79	135.86	168.57	0.00	0.00	0.00
8,100.00	0.00	0.00	8,094.97	-99.79	135.86	168.57	0.00	0.00	0.00
8,200.00	0.00	0.00	8,194.97	-99.79	135.86	168.57	0.00	0.00	0.00
8,300.00	0.00	0.00	8,294.97	-99.79	135.86	168.57	0.00	0.00	0.00
8,400.00	0.00	0.00	8,394.97	-99.79	135.86	168.57	0.00	0.00	0.00
8,500.00	0.00	0.00	8,494.97	-99.79	135.86	168.57	0.00	0.00	0.00
8,600.00	0.00	0.00	8,594.97	-99.79	135.86	168.57	0.00	0.00	0.00
8,700.00	0.00	0.00	8,694.97	-99.79	135.86	168.57	0.00	0.00	0.00



SDI
Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well MORGAN STATE 921-36C4BS
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 921-36C4BS	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	8,794.97	-99.79	135.86	168.57	0.00	0.00	0.00
8,900.00	0.00	0.00	8,894.97	-99.79	135.86	168.57	0.00	0.00	0.00
9,000.00	0.00	0.00	8,994.97	-99.79	135.86	168.57	0.00	0.00	0.00
9,100.00	0.00	0.00	9,094.97	-99.79	135.86	168.57	0.00	0.00	0.00
9,200.00	0.00	0.00	9,194.97	-99.79	135.86	168.57	0.00	0.00	0.00
9,300.00	0.00	0.00	9,294.97	-99.79	135.86	168.57	0.00	0.00	0.00
9,400.00	0.00	0.00	9,394.97	-99.79	135.86	168.57	0.00	0.00	0.00
9,500.00	0.00	0.00	9,494.97	-99.79	135.86	168.57	0.00	0.00	0.00
9,503.03	0.00	0.00	9,498.00	-99.79	135.86	168.57	0.00	0.00	0.00
SEGO									
9,565.03	0.00	0.00	9,560.00	-99.79	135.86	168.57	0.00	0.00	0.00
CASTLEGATE									
9,600.00	0.00	0.00	9,594.97	-99.79	135.86	168.57	0.00	0.00	0.00
9,700.00	0.00	0.00	9,694.97	-99.79	135.86	168.57	0.00	0.00	0.00
9,800.00	0.00	0.00	9,794.97	-99.79	135.86	168.57	0.00	0.00	0.00
9,900.00	0.00	0.00	9,894.97	-99.79	135.86	168.57	0.00	0.00	0.00
9,998.03	0.00	0.00	9,993.00	-99.79	135.86	168.57	0.00	0.00	0.00
BLACKHAWK - BLACKHAWK_MORGAN STATE 921-36C4BS									
10,000.00	0.00	0.00	9,994.97	-99.79	135.86	168.57	0.00	0.00	0.00
10,100.00	0.00	0.00	10,094.97	-99.79	135.86	168.57	0.00	0.00	0.00
10,200.00	0.00	0.00	10,194.97	-99.79	135.86	168.57	0.00	0.00	0.00
10,300.00	0.00	0.00	10,294.97	-99.79	135.86	168.57	0.00	0.00	0.00
10,400.00	0.00	0.00	10,394.97	-99.79	135.86	168.57	0.00	0.00	0.00
10,500.00	0.00	0.00	10,494.97	-99.79	135.86	168.57	0.00	0.00	0.00
10,598.03	0.00	0.00	10,593.00	-99.79	135.86	168.57	0.00	0.00	0.00
PBHL_MORGAN STATE 921-36C4BS									

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 - plan hits target center - Circle (radius 25.00)	0.00	0.00	9,993.00	-99.79	135.86	14,528,747.49	2,060,204.66	39° 59' 51.828 N	109° 30' 4.136 W
PBHL_MORGAN STATE - plan hits target center - Circle (radius 100.00)	0.00	0.00	10,593.00	-99.79	135.86	14,528,747.49	2,060,204.66	39° 59' 51.828 N	109° 30' 4.136 W

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,629.13	2,625.00	8 5/8"	8.625	11.000	



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well MORGAN STATE 921-36C4BS
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 921-36C4BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,377.79	1,376.00	GREENRIVER			
1,680.36	1,678.00	BIRDSNEST			
2,178.29	2,175.00	MAHOGANY			
4,638.03	4,633.00	WASATCH			
7,321.03	7,316.00	MESAVERDE			
9,503.03	9,498.00	SEGO			
9,565.03	9,560.00	CASTLEGATE			
9,998.03	9,993.00	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	
475.00	474.89	-3.16	4.31	Start 2573.72 hold at 475.00 MD	
3,048.72	3,043.82	-96.18	130.94	Start Drop -1.75	
3,248.72	3,243.69	-99.79	135.86	Start 7349.31 hold at 3248.72 MD	
10,598.03	10,593.00	-99.79	135.86	TD at 10598.03	

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 921-36C4BS
T9S-R21E
Section 36: NENW (Surface), NENW (Bottom Hole)
Surface: 645' FNL, 2007' FWL
Bottom Hole: 745' FNL, 2143' FWL
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: 43047522730000

Phone: (801) 538-5156

RECEIVED: February 23, 2012

Well Name	KERR-MCGEE OIL & GAS ONSHORE, L.P. Morgan State 921-36C4BS			
String	Surf	Prod		
Casing Size(")	8.625	4.500		
Setting Depth (TVD)	2626	10593		
Previous Shoe Setting Depth (TVD)	0	2626		
Max Mud Weight (ppg)	8.4	13.0		
BOPE Proposed (psi)	500	5000		
Casing Internal Yield (psi)	3390	10690		
Operators Max Anticipated Pressure (psi)	6991	12.7		

Calculations	Surf String	8.625	"
Max BHP (psi)	.052*Setting Depth*MW=	1147	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	832	NO air drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	569	NO 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)=	569	NO
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=	7161	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	5890	NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	4831	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	5408	NO Reasonable
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2626	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
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO
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
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

430475227.30000 Morgan State 921-36C4BS

Casing Schematic

Surface

✓ Stop surf. cmt.

8-5/8"
MW 8.4
Frac 19.3

cmts. proposed to surf.

4-1/2"
MW 13.

TOC @ 765.
to surf @ 9% w/o, tail 3720'

1376' Green River
to 594' @ 0% w/o, tail 1409'
TOC @ 1522.
1678' Birds Nest
± BMSW

Surface
2630. MD
2626. TVD

4212' tail
4633' Wasatch

7316' Mesaverde

9498' Seep
9560' Castle gate
9993' MNS

Production
10598. MD
10593. TVD

045 NL 2007 WL
- 100 136
745 FNL 2143 FWL ✓ OK.

NE NW Sec 36-9S-21E

Well name:	430475227' 30000 Morgan State 921-36C4BS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Surface	Project ID:	43-047-52273
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: 111 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft

Cement top: 1,522 ft

Burst

Max anticipated surface pressure: 2,311 psi
 Internal gradient: 0.120 psi/ft
 Calculated BHP 2,626 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: 2,304 ft

Directional Info - Build & Drop

Kick-off point 300 ft
 Departure at shoe: 137 ft
 Maximum dogleg: 2 °/100ft
 Inclination at shoe: 3.5 °

Re subsequent strings:

Next setting depth: 10,593 ft
 Next mud weight: 13.000 ppg
 Next setting BHP: 7,154 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 2,626 ft
 Injection pressure: 2,626 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	2630	8.625	28.00	I-55	LT&C	2626	2630	7.892	104148
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	1146	1880	1.641	2626	3390	1.29	73.5	348	4.73 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 2626 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 30000 Morgan State 921-36C4BS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Production	Project ID:	43-047-52273
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: 4,823 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 7,154 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: 8,539 ft

Directional Info - Build & Drop

Kick-off point 300 ft
 Departure at shoe: 169 ft
 Maximum dogleg: 2 °/100ft
 Inclination at shoe: 0 °

Estimated cost: 158,971 (\$)

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	4995	5000	3.875	132000
1	5598	4.5	11.60	HCP-110	LT&C	10593	10598	3.875	26971

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	3373	8125	2.409	5922	10690	1.81	122.9	367.2	2.99 B
1	7154	8650	1.209	7154	10690	1.49	64.9	279	4.30 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:

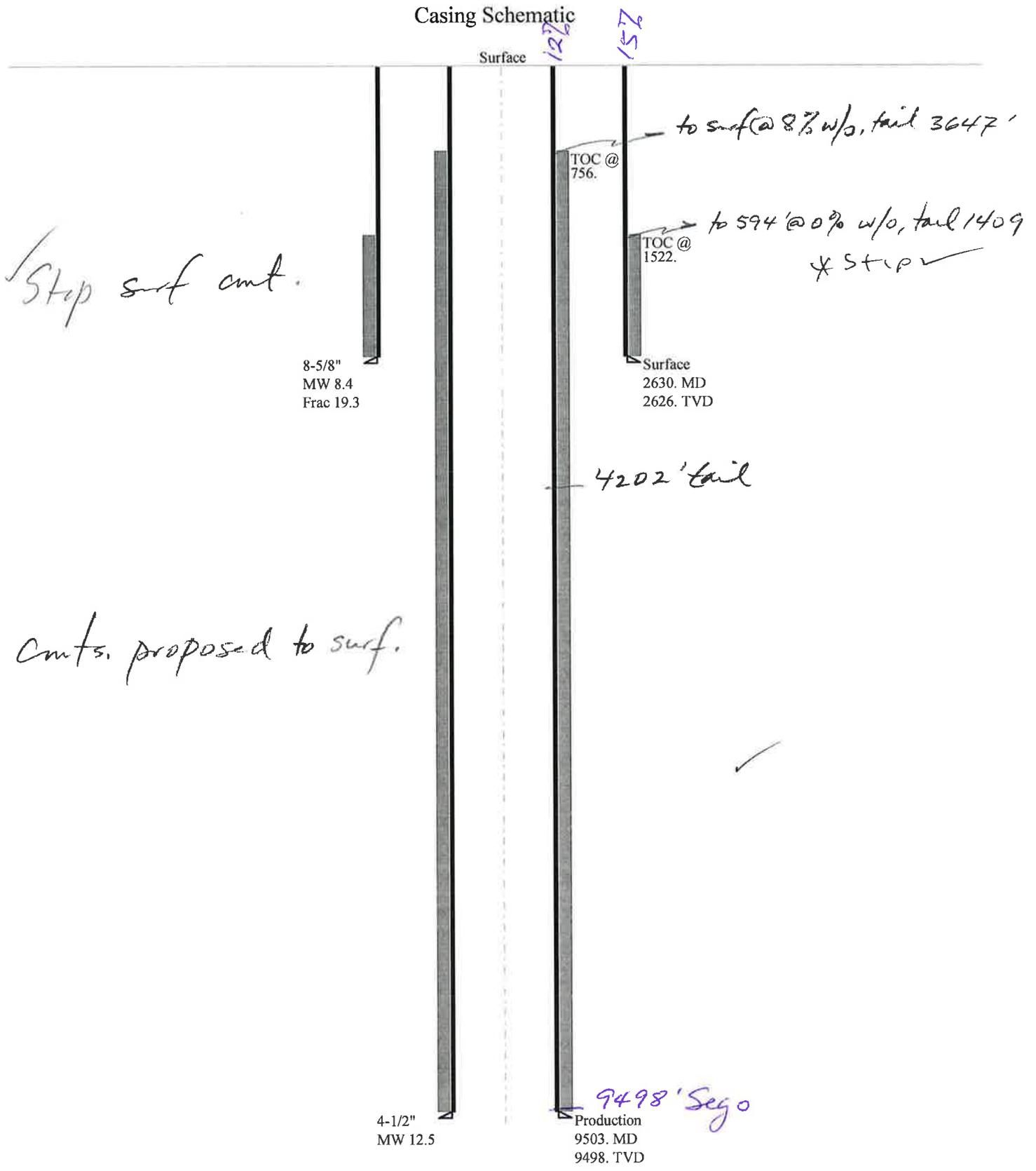
Collapse is based on a vertical depth of 10593 ft, a mud weight of 13 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

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

430475227 30000 Morgan State 921-36C4BS

Casing Schematic



Stop surf cmt.

Cmts. proposed to surf.

Well name:	430475227 30000 Morgan State 921-36C4BS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Surface	Project ID:	43-047-52273
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: 111 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 1,522 ft

Burst

Max anticipated surface pressure: 2,311 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,626 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: 2,304 ft

Directional Info - Build & Drop

Kick-off point 300 ft
Departure at shoe: 137 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 3.5 °

Re subsequent strings:

Next setting depth: 9,498 ft
Next mud weight: 12.500 ppg
Next setting BHP: 6,168 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,626 ft
Injection pressure: 2,626 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	2630	8.625	28.00	I-55	LT&C	2626	2630	7.892	104148
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	1146	1880	1.641	2626	3390	1.29	73.5	348	4.73 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 2626 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 30000 Morgan State 921-36C4BS	
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.	
String type:	Production	Project ID: 43-047-52273
Location:	UINTAH COUNTY	

Design parameters:**Collapse**

Mud weight: 12.500 ppg
Internal fluid density: 1.500 ppg

Burst

Max anticipated surface pressure: 4,078 psi
Internal gradient: 0.220 psi/ft
Calculated BHP: 6,168 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: 7,728 ft

Estimated cost: 191,440 (\$)

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 207 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft
Cement top: 756 ft

Directional Info - Build & Drop

Kick-off point: 300 ft
Departure at shoe: 169 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	4995	5000	3.875	132000
1	4503	4.5	11.60	I-80	LT&C	9498	9503	3.875	59440

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	2854	5913	2.072	5177	7780	1.50	110.2	267	2.42 J
1	5427	6360	1.172	6168	7780	1.26	52.2	212	4.06 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 9498 ft, a mud weight of 12.5 ppg. An internal gradient of .078 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

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

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator KERR-MCGEE OIL & GAS ONSHORE, L.P.
Well Name Morgan State 921-36C4BS
API Number 43047522730000 **APD No** 5059 **Field/Unit** NATURAL BUTTES
Location: 1/4,1/4 NENW **Sec** 36 **Tw** 9.0S **Rng** 21.0E 645 FNL 2007 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 rimed 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

Grazing
Wildlfe Habitat
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

1/11/2012

Evaluator

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
5059	43047522730000	SITLA	GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		Surface Owner-APD		
Well Name	Morgan State 921-36C4BS		Unit		
Field	NATURAL BUTTES		Type of Work	DRILL	
Location	NENW 36 9S 21E S 645 FNL (UTM) 627855E 4428608N		2007 FWL	GPS Coord	

Geologic Statement of Basis

Kerr McGee proposes to set 2,630' 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.

David Hackford
Onsite Evaluator

1/11/2012
Date / Time

RECEIVED: March 20, 2012

Application for Permit to Drill Statement of Basis

3/20/2012

Utah Division of Oil, Gas and Mining

Page 2

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: 43047522730000

WELL NAME: Morgan State 921-36C4BS

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: 0645 FNL 2007 FWL

Engineering Review:

BOTTOM: 0745 FNL 2143 FWL

Geology Review:

COUNTY: UINTAH

LATITUDE: 39.99798

LONGITUDE: -109.50224

UTM SURF EASTINGS: 627855.00

NORTHINGS: 4428608.00

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 921-36C4BS
API Well Number: 43047522730000
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
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: 7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	8. WELL NAME and NUMBER: Morgan State 921-36C4BS
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	9. API NUMBER: 43047522730000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0645 FNL 2007 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"/> 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 checked="" type="checkbox"/> SPUD REPORT Date of Spud: 6/27/2012	<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 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.

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 11:30 HRS.

**Accepted by the
 Utah Division of
 Oil, Gas and Mining
 FOR RECORD ONLY
 June 29, 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 921-36C4BS
Qtr/Qtr NENW Section 36 Township 9S Range 21E
Lease Serial Number ML 22265
API Number 4304752273

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

Date/Time 06/27/2012 11:00 HRS AM PM

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

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

Date/Time 07/14/2012 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 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 921-36C4BS	
9. API NUMBER: 43047522730000	
9. FIELD and POOL or WILDCAT: MORGAN STATE LATERAL 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 921-36C4BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047522730000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	9. FIELD and POOL or WILDCAT: MORGAN STATE LATERAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0645 FNL 2007 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 36 Township: 09.0S Range: 21.0E Meridian: S	PHONE NUMBER: 720 929-6511

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: 7/11/2012	<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.

MIRU AIR RIG ON 7/9/2012. DRILLED SURFACE HOLE TO 2675'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.

**Accepted by the
Utah Division of
Oil, Gas and Mining**

FOR RECORD ONLY

July 20, 2012

NAME (PLEASE PRINT) Cara Mahler	PHONE NUMBER 720 929-6029	TITLE Regulatory Analyst I
SIGNATURE N/A	DATE 7/17/2012	

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	186601	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	186602	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	186603	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

Cara Mahler

Name (Please Print)

Signature

6/29/2012

Title

Date

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 921-36C4BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047522730000
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: 0645 FNL 2007 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 2,675

**Accepted by the
Utah Division of
Oil, Gas and Mining**

FOR RECORD ONLY

September 06, 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
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: 7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	8. WELL NAME and NUMBER: MORGAN STATE 921-36C4BS
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	9. API NUMBER: 43047522730000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0645 FNL 2007 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 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"/> 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 2,675.

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 921-36C4BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047522730000
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: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0645 FNL 2007 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 36 Township: 09.0S Range: 21.0E Meridian: S	COUNTY: UINTAH STATE: UTAH

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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 2,675.

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 921-36C4BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047522730000
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: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0645 FNL 2007 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

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<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
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<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
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	<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 2,692.

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:
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2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047522730000
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: 0645 FNL 2007 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 36 Township: 09.0S Range: 21.0E Meridian: S	COUNTY: UINTAH STATE: UTAH

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<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: 12/14/2012	<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
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	<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.

FINISHED DRILLING TO 9,505' ON 12/12/2012. CEMENTED PRODUCTION CASING. RELEASED H&P 298 RIG ON 12/14/2012. DETAILS OF CASING AND CEMENT WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 December 17, 2012

NAME (PLEASE PRINT) Lindsey Frazier	PHONE NUMBER 720 929-6857	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 12/17/2012	

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:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: MORGAN STATE 921-36C4BS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047522730000	
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: 0645 FNL 2007 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"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 2/4/2013	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<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"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> 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 January 2013. Well TD at 9,505		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY February 07, 2013		
NAME (PLEASE PRINT) Laura Abrams	PHONE NUMBER 720 929-6356	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 2/4/2013	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22265
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 921-36C4BS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047522730000	
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: MATERIAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0645 FNL 2007 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"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 3/4/2013	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <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	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
Started completing the well. Well TD at 9,505		
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 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 921-36C4BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047522730000
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: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0645 FNL 2007 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: 4/3/2013	<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 9,505

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 April 04, 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
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 921-36C4BS	
9. API NUMBER: 43047522730000	
9. FIELD and POOL or WILDCAT: MORGAN STATE LATERAL 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	1. TYPE OF WELL Gas Well
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	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: 0645 FNL 2007 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: 4/12/2013	<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 checked="" 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.
 The subject well was brought onto production on 4/10/2013.

**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 _____		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22265
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 _____		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 CITY DENVER STATE CO ZIP 80217		8. WELL NAME and NUMBER: MORGAN STATE 921-36C4BS
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: NENW 645 FNL 2007 FWL S36,T9S,R21E AT TOP PRODUCING INTERVAL REPORTED BELOW: NENW 728 FNL 2129 FWL S36,T9S,R21E AT TOTAL DEPTH: NENW 766 FNL 2156 FWL S36,T9S,R21E		9. API NUMBER: 4304752273
14. DATE SPUNNED: 6/27/2012		10. FIELD AND POOL, OR WILDCAT NATURAL BUTTES
15. DATE T.D. REACHED: 12/12/2012		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENW 36 9S 21E S
16. DATE COMPLETED: 4/10/2013 ABANDONED <input type="checkbox"/> READY TO PRODUCE <input checked="" type="checkbox"/>		12. COUNTY UINTAH
17. ELEVATIONS (DF, RKB, RT, GL): 5014 RKB		13. STATE UTAH

18. TOTAL DEPTH: MD 9,505 TVD 9,499	19. PLUG BACK T.D.: MD 9,472 TVD 9,466	20. IF MULTIPLE COMPLETIONS, HOW MANY? *	21. DEPTH BRIDGE PLUG SET: MD _____ TVD _____
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22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
CBL/GR/CCL/TEMP

23. WAS WELL CORED? NO YES (Submit analysis)
 WAS DST RUN? NO YES (Submit report)
 DIRECTIONAL SURVEY? NO YES (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	2,675		675		0	
7 7/8"	4 1/2" I-80	11.6#	0	9,496		1,525		300	

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"	8,828							

26. PRODUCING INTERVALS					27. PERFORATION RECORD				
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS	
(A) WASATCH	6,406	7,326			6,406 7,326	0.36	60	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(B) MESAVERDE	7,364	9,349			7,364 9,349	0.36	162	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
6406-9349	PUMP 12,963 BBLs SLICK H2O & 294,154 LBS 30/50 OTTAWA SAND 10 STAGES

29. ENCLOSED ATTACHMENTS: <input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION <input type="checkbox"/> GEOLOGIC REPORT <input type="checkbox"/> CORE ANALYSIS <input type="checkbox"/> DST REPORT <input type="checkbox"/> OTHER: _____	30. WELL STATUS: PROD
---	---------------------------------

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 4/10/2013		TEST DATE: 4/17/2013		HOURS TESTED: 24		TEST PRODUCTION RATES: →		OIL – BBL: 0	GAS – MCF: 3,084	WATER – BBL: 0	PROD. METHOD: FLOWING
CHOKE SIZE: 20/64	TBG. PRESS. 2,066	CSG. PRESS. 2,769	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 3,084	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	1,376
				BIRD'S NEST	1,760
				MAHOGANY	2,187
				WASATCH	4,667
				MESAVERDE	7,355

35. ADDITIONAL REMARKS (Include plugging procedure)

The first 210' of the surface hole was drilled with a 12 1/2" bit. The remainder of surface hole was drilled with an 11" bit. DQX csg was run from surface to 4067'; LTC csg was run from 4067' to 9496'. A DV tool was placed in the well from 4067 feet – 4070 feet. 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 *T. Paulo* DATE 5/3/2013

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
 1594 West North Temple, Suite 1210
 Box 145801
 Salt Lake City, Utah 84114-5801
 Phone: 801-538-5340
 Fax: 801-359-3940

US ROCKIES REGION								
Operation Summary Report								
Well: MORGAN STATE 921-36C4BS BLUE					Spud Date: 7/9/2012			
Project: UTAH-UINTAH			Site: MORGAN STATE 921-36C PAD			Rig Name No: H&P 298/298, CAPSTAR 310/310		
Event: DRILLING			Start Date: 6/25/2012		End Date: 12/14/2012			
Active Datum: RKB @5,014.00usft (above Mean Sea Level)				UWI: NE/NW09/S/21/E/36/O/O/26/PM/N/645/W/O/2007/O/O				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
7/9/2012	0:00 - 5:00	5.00	MIRU	01	C	P		SKID RIG, WELD ON ROTATING HEAD, RIG UP FLOWLINE. SLIP AND CUT DRILL LINE.
	5:00 - 5:30	0.50	PRPSPD	01	B	P		PICK UP BHA, AIR OUT PUMPS
	5:30 - 7:00	1.50	PRPSPD	21	D	Z		WAIT ON NOV, SHAKER MOTOR REPAIR
	7:00 - 9:00	2.00	DRLSUR	02	D	P		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
	9:00 - 11:00	2.00	DRLSUR	06	A	P		PULL OUT OF HOLE. LAY DOWN 12.25" BIT. PICK UP 11.00" BIT AND DIRECTIONAL TOOLS. TRIP IN HOLE
	11:00 - 17:00	6.00	DRLSUR	02	D	P		DRILL 11.00" SURFACE HOLE F/210'-907' ROP= 697' @116" FPH WOB= 22/30K RPM= 55/105 ON BTTM PUMP= 975 PSI OFF BTTM PUMP= 740 PSI GPM= 576 TRQ= 2700/1900 UP/DWN/ROT= 62/48/60
	17:00 - 0:00	7.00	DRLSUR	02	D	P		DRILL 11.00" SURFACE HOLE F/907'-1470' ROP= 563' @80" FPH WOB= 22/30K RPM= 55/105 ON BTTM PUMP= 1010PSI OFF BTTM PUMP= 780 PSI GPM= 576 TRQ= 3200/2800 UP/DWN/ROT= 87/71/79
7/10/2012	0:00 - 8:00	8.00	DRLSUR	02	D	P		DRILL 11.00" SURFACE HOLE F/1470'-2280' ROP= 810' @ 101' FPH WOB= 22/30K RPM= 55/105 ON BTTM PUMP= 1030PSI OFF BTTM PUMP= 880 PSI GPM= 576 TRQ=2100/880 UP/DWN/ROT= 105/88/95 HOLE CONDITION GOOD ON AIR 1200CFM

US ROCKIES REGION								
Operation Summary Report								
Well: MORGAN STATE 921-36C4BS BLUE					Spud Date: 7/9/2012			
Project: UTAH-UINTAH			Site: MORGAN STATE 921-36C PAD			Rig Name No: H&P 298/298, CAPSTAR 310/310		
Event: DRILLING			Start Date: 6/25/2012		End Date: 12/14/2012			
Active Datum: RKB @5,014.00usft (above Mean Sea Level)				UWI: NE/NW0/9/S/21/E/36/0/0/26/PM/N/645/W/0/2007/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	8:00 - 13:30	5.50	DRLSUR	02	D	P		DRILL 11.00" SURFACE HOLE F/2280'-2675' ROP= 395' @ 69'FPH WOB= 22/30K RPM= 55/105 ON BTM PUMP= 1150PSI OFF BTM PUMP= 900 PSI GPM= 576 TRQ=3000/2700 UP/DWN/ROT= 109/86/95 ON AIR 1200CFM NOV LET PIT RUN OUT OF FLUID, HAND DID NOT NOTIFY ANYONE. STUCK IN HOLE
	13:30 - 15:00	1.50	DRLSUR	06	F	P		PULL OUT OF HOLE, LAY DOWN 6 JOINTS, TO 2500'. TRIP IN HOLE, WASH BACK TO BOTTOM, 2675'.
	15:00 - 16:00	1.00	DRLSUR	05	C	P		CIRCULATE AND CONDITION.
	16:00 - 19:30	3.50	DRLSUR	06	D	P		PULLOUT OF HOLE. LAY DOWN BIT AND DIRECTIONAL TOOLS
	19:30 - 22:30	3.00	CSGSUR	12	C	P		PJSM /// RIG UP AND RUN 60 JTS, 8-5/8", 28#, J-55, LT&C CSG /// SHOE SET @ 2649' /// BAFFLE @ 2613'
	22:30 - 0:00	1.50	CSGSUR	12	E	P		PJSM WITH PRO PETRO CMT CREW /// PUMP 150 BBLs WATER AHEAD FOLLOWED BY 20 BBL GEL WATER FLUSH /// LEAD = 350sx CLASS G CMT @ 12.0 WT & 2.78 YIELD /// TAIL = 200sx CLASS G CMT @ 15.8 WT & 1.15 YIELD /// DROP PLUG & DISPLACE W/ 162 BBL'S WATER /// PLUG DN @ 23:55 7/10/2012 /// BUMP PLUG W/ 800 PSI /// FINAL LIFT = 470 PSI /// CHECK FLOAT - FLOAT HELD NO CMT TO SURFACE RUN 200' OF 1" PIPE DOWN BACKSIDE & TOP OUT W/ 125 sx CLASS G CMT & 15.8 WT & 1.15 YIELD /// NO CMT TO SURFACE CEMENT JOB CONTINUED ON REPORT #3, FINISHED UP 0200 7/11/12

US ROCKIES REGION									
Operation Summary Report									
Well: MORGAN STATE 921-36C4BS BLUE					Spud Date: 7/9/2012				
Project: UTAH-UJINTAH			Site: MORGAN STATE 921-36C PAD			Rig Name No: H&P 298/298, CAPSTAR 310/310			
Event: DRILLING			Start Date: 6/25/2012		End Date: 12/14/2012				
Active Datum: RKB @5,014.00usft (above Mean Sea Level)				UWI: NE/NW/0/9/S/21/E/36/0/0/26/PM/N/645/W/0/2007/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation	
7/11/2012	0:00 - 2:00	2.00	CSGSUR	13	A	P		CONTINUE CEMENT JOB STARTED 7/11/12	
								PJSM WITH PRO PETRO CMT CREW /// PUMP 150 BBL WATER AHEAD FOLLOWED BY 20 BBL GEL WATER FLUSH /// LEAD = 350sx CLASS G CMT @ 12.0 WT & 2.78 YIELD /// TAIL = 200sx CLASS G CMT @ 15.8 WT & 1.15 YIELD /// DROP PLUG & DISPLACE W/ 162 BBL'S WATER /// PLUG DN @ 23:55 7/10/2012 /// BUMP PLUG W/ 800 PSI /// FINAL LIFT = 470 PSI /// CHECK FLOAT - FLOAT HELD NO CMT TO SURFACE RUN 200' OF 1" PIPE DOWN BACKSIDE & TOP OUT W/ 125 sx CLASS G CMT & 15.8 WT & 1.15 YIELD /// NO CMT TO SURFACE CLEAN OUT CLOSED LOOP MANAFOLD AND SHAKER PIT RELEASE RIG 02:00 7/11/12, TO SKID TO MORGAN STATE 921-36C4CS, WELL 3 OF 4 PREPARE & SKID RIG	
12/9/2012	6:00 - 8:00	2.00	MIRU3	01	C	P		RIG UP AFTER SKID	
	8:00 - 9:00	1.00	MIRU3	01	B	P		NIPPLE UP BOP'S & EQUIPMENT	
	9:00 - 10:00	1.00	PRPSPD	14	A	P		FINISH CHANGING OUT IBOP & SERVICE RIG	
	10:00 - 12:00	2.00	PRPSPD	07	C	P		TEST CASING, BOP'S & EQUIPMENT AS PER PROGRAM 250/5000 - CASING TO 1500 PSI	
	12:00 - 15:00	3.00	PRPSPD	15	A	P		PRESSURE TEST MI SWACO PRESSURE CONTROL EQUIPMENT	
	15:00 - 16:00	1.00	PRPSPD	15	A	P		INSTALL WEAR BUSHING	
	16:00 - 16:30	0.50	PRPSPD	14	B	P		PICK UP DIRECTIONAL BHA WITH WEATHERFORD & TIH PICKING UP DRILL PIPE TO 2,606'	
	16:30 - 23:00	6.50	PRPSPD	06	A	P		LEVEL DERRICK & PRESPUD INSPECTION	
	23:00 - 0:00	1.00	PRPSPD	07	B	P		DRILL CEMENT & SHOE TRACK FROM 2,606' TO 2,666' CLEAN OUT RATHOLE TO 2,692'	
12/10/2012	0:00 - 1:00	1.00	DRLPRV	02	F	P		DRILL /SLIDE / SURVEY/ F/ 2,692' TO 3,383' = 691' @138.2 FPH	
	1:00 - 6:00	5.00	DRLPRV	02	B	P		WOB 22-24000 TOP DRIVE RPM 40-75 MUD MOTOR RPM 123 PUMPS 130 SPM= 585 GPM PUMP PRESSURE ON/OFF BTM 1,830/1,400 TORQUE ON/OFF BTM 7,000/ 3,000 PICK UP WT 110,000 SLACK OFF WT 88,000 ROT WT 102,000 SLIDE 41' IN 30 MIN 1.25% OF FOOTAGE DRILLED, .5 %OF HRS DRILLED MUD WT 8.3 VIS 26, PUMPING 5-10 BBL SWEEPS EVERY STAND WITH 2% LCM NOV-D WATER SWACO OFF LINE @ 3245 SURFACE GAS - 5 TO 15' FLARE	

US ROCKIES REGION								
Operation Summary Report								
Well: MORGAN STATE 921-36C4BS BLUE					Spud Date: 7/9/2012			
Project: UTAH-UINTAH			Site: MORGAN STATE 921-36C PAD			Rig Name No: H&P 298/298, CAPSTAR 310/310		
Event: DRILLING			Start Date: 6/25/2012		End Date: 12/14/2012			
Active Datum: RKB @5,014.00usft (above Mean Sea Level)				UWI: NE/NW/0/9/S/21/E/36/0/0/26/PM/N/645/W/0/2007/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 9:00	3.00	DRLPRV	06	A	S		TOOH OUT OF HOLE DUE TO 140 DEGREE DIFFERENCE IN AZI. INSPECT TOOLS *** DIRECTIONAL CORRECTION ***
	9:00 - 13:00	4.00	DRLPRV	06	A	S		CHANGE OUT ALL DIRECTIONAL TOOLS,SCRIBE ORIENTATE & TEST SAME *** DIRECTIONAL CORRECTION***
	13:00 - 15:30	2.50	DRLPRV	06	A	P		TIH WITH BHA # 2 BIT # 1 WASH LAST STAND TO BOTTOM WITH NO PROBLEMS NOTE: BAKER MUD MOTOR WAS SCRIBED 140 DEGREE OUT FROM HIGH SIDE *** DIRECTIONAL CORRECTION ***
	15:30 - 0:00	8.50	DRLPRV	02	B	P		DRILL /SLIDE / SURVEY/ F/ 3,383' TO 4,660' = 1,277" @150.23 FPH WOB 22-24000 TOP DRIVE RPM 40-75 MUD MOTOR RPM 123 PUMPS 130 SPM= 585 GPM PUMP PRESSURE ON/OFF BTM 2350/1986 TORQUE ON/OFF BTM 9,000/ 6,000 PICK UP WT 154,000 SLACK OFF WT 124,000 ROT WT 139,000 SLIDE 86' IN 85 MIN 6.52% OF FOOTAGE DRILLED, 1.41 %OF HRS DRILLED MUD WT 8.4 VIS 26, PUMPING 5-10 BBL SWEEPS EVERY STAND WITH 4% LCM NOV-D WATER SWACO OFF LINE FLUID LOST 220 BBL
12/11/2012	0:00 - 6:00	6.00	DRLPRV	02	B	P		DRILL /SLIDE / SURVEY/ F/ 4,660' TO 5,680' = 1,020' @ 170 FPH WOB 22-24000 TOP DRIVE RPM 40-75 MUD MOTOR RPM 115 PUMPS 124 SPM= 558 GPM PUMP PRESSURE ON/OFF BTM 2350/1986 TORQUE ON/OFF BTM 9,000/ 6,000 PICK UP WT 154,000 SLACK OFF WT 124,000 ROT WT 139,000 SLIDE 32' IN 30 MIN 3.76% OF FOOTAGE DRILLED, .5 %OF HRS DRILLED MUD WT 8.4 VIS 26, PUMPING 5-10 BBL SWEEPS EVERY STAND WITH 4% LCM NOV-D WATER SWACO OFF LINE NO FLUID LOST

US ROCKIES REGION								
Operation Summary Report								
Well: MORGAN STATE 921-36C4BS BLUE						Spud Date: 7/9/2012		
Project: UTAH-UINTAH			Site: MORGAN STATE 921-36C PAD			Rig Name No: H&P 298/298, CAPSTAR 310/310		
Event: DRILLING			Start Date: 6/25/2012		End Date: 12/14/2012			
Active Datum: RKB @5,014.00usft (above Mean Sea Level)				UWI: NE/NW0/9/S/21/E/36/0/0/26/PM/N/645/W/0/2007/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 14:00	8.00	DRLPRV	02	B	P		DRILL /SLIDE / SURVEY/ F/ 5,680' TO 6,972' = 1,292' @161.5 FPH WOB 22-24000 TOP DRIVE RPM 40-75 MUD MOTOR RPM 115 PUMPS 130 SPM= 558 GPM PUMP PRESSURE ON/OFF BTM 2200/2000 TORQUE ON/OFF BTM 9,000/ 7,000 PICK UP WT 186,000 SLACK OFF WT 139,000 ROT WT 166,000 SLIDE 45' IN 90 MIN 3.17% OF FOOTAGE DRILLED, 12.33 %OF HRS DRILLED MUD WT 8.5 VIS 26, PUMPING 5-10 BBL SWEEPS EVERY STAND WITH 4% LCM NOV-D WATER SWACO OFF LINE FLUID LOST 110 BBL
	14:00 - 14:30	0.50	DRLPRV	07	A	P		SERVICE RIG@ 6,972'
	14:30 - 0:00	9.50	DRLPRV	02	B	P		DRILL /SLIDE / SURVEY/ F/ 6,972' TO 7,585' = 613' @64.52 FPH WOB 22-24000 TOP DRIVE RPM 50-75 MUD MOTOR RPM 115 PUMPS 130 SPM= 558 GPM PUMP PRESSURE ON/OFF BTM 2250/2050 TORQUE ON/OFF BTM 9,000/ 8,000 PICK UP WT 198,000 SLACK OFF WT 145,000 ROT WT 172,000 SLIDE 12' IN 25 MIN 1.78% OF FOOTAGE DRILLED, 6.41 %OF HRS DRILLED MUD WT 8.6 VIS 27, PUMPING 5-10 BBL SWEEPS EVERY STAND WITH 4% LCM NOV-D WATER SWACO OFF LINE FLUID LOST 160 BBL

US ROCKIES REGION									
Operation Summary Report									
Well: MORGAN STATE 921-36C4BS BLUE					Spud Date: 7/9/2012				
Project: UTAH-UINTAH			Site: MORGAN STATE 921-36C PAD			Rig Name No: H&P 298/298, CAPSTAR 310/310			
Event: DRILLING			Start Date: 6/25/2012		End Date: 12/14/2012				
Active Datum: RKB @5,014.00usft (above Mean Sea Level)				UWI: NE/NW0/9/S/21/E/36/0/0/26/PM/N/645/W/0/2007/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation	
12/12/2012	0:00 - 6:00	6.00	DRLPRV	02	B	P		DRILL /SLIDE / SURVEY/ F/ 7,585' TO 8,120' = 535' @ 89.16 FPH WOB 22-26000 TOP DRIVE RPM 55-75 MUD MOTOR RPM 115 PUMPS 130 SPM= 558 GPM PUMP PRESSURE ON/OFF BTM 2350/2125 TORQUE ON/OFF BTM 12,000/ 10,000 PICK UP WT 215,000 SLACK OFF WT 163,000 ROT WT 192,000 SLIDE 20' IN 55 MIN 4.43% OF FOOTAGE DRILLED, 18.33 %OF HRS DRILLED MUD WT 8.6 VIS 27, PUMPING 5-10 BBL SWEEPS EVERY STAND WITH 4% LCM NOV-D WATER SWACO OFF LINE FLUID LOST 60 BBL START BUILDING DISPLACEMENT MUD	
	6:00 - 14:30	8.50	DRLPRV	02	B	P		DRILL /SLIDE / SURVEY/ F/ 8,120' TO 8,956' = 836' @ 98.35 FPH WOB 22-26000 TOP DRIVE RPM 50-75 MUD MOTOR RPM 115 PUMPS 130 SPM= 558 GPM PUMP PRESSURE ON/OFF BTM 2405/2150 TORQUE ON/OFF BTM 14000/ 12,000 PICK UP WT 223,000 SLACK OFF WT 165,000 ROT WT 194,000 SLIDE 45' IN 155 MIN 5.11% OF FOOTAGE DRILLED, 31%OF HRS DRILLED MUD WT 8.5 VIS 27, PUMPING 5-10 BBL SWEEPS EVERY STAND WITH 4% LCM NOV-D WATER SWACO OFF LINE FLUID LOST 15 BBL 5' FLARE	
	14:30 - 15:00	0.50	DRLPRV	07	A	P		SERVICE RIG @ 8,956'	

US ROCKIES REGION								
Operation Summary Report								
Well: MORGAN STATE 921-36C4BS BLUE					Spud Date: 7/9/2012			
Project: UTAH-UINTAH			Site: MORGAN STATE 921-36C PAD			Rig Name No: H&P 298/298, CAPSTAR 310/310		
Event: DRILLING			Start Date: 6/25/2012		End Date: 12/14/2012			
Active Datum: RKB @5,014.00usft (above Mean Sea Level)				UWI: NE/NW/09/S/21/E/36/0/0/26/PM/N/645/W/0/2007/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	15:00 - 21:30	6.50	DRLPRV	02	B	P		DRILL / SURVEY/ F/ 8,956' TO 9,505' TD = 549' @ 84.46 FPH WOB 22-26000 TOP DRIVE RPM 50-75 MUD MOTOR RPM 115 PUMPS 130 SPM= 558 GPM PUMP PRESSURE ON/OFF BTM 2405/2150 TORQUE ON/OFF BTM 14000/ 12,000 PICK UP WT 223,000 SLACK OFF WT 165,000 ROT WT 194,000 SLIDE 45' IN 155 MIN 5.11% OF FOOTAGE DRILLED, 31% OF HRS DRILLED MUD WT 8.5 VIS 27, PUMPING 5-10 BBL SWEEPS EVERY STAND WITH 4% LCM NOV-RUNNING CONVENTIONAL SWACO ON LINE HOLDING 100 PSI 225 ON CONNECTION FLUID LOST 15 BBL 5 TO 10' FLARE DISPLACE WATER WITH 44 VIS 10.6 PPG MUD 8% LCM
	21:30 - 0:00	2.50	DRLPRV	05	C	P		CIRC & CONDITION MUD, RAISE MUD WT FROM 10.3 TO 11.0 PPG @ 9,505' TD 10 TO 20' FLARE
12/13/2012	0:00 - 2:30	2.50	DRLIN3	05	B	P		CONTINUE TO CIRCULATE & RAISE MUD WT TO 11.2 PPG 5 TO 10' FLARE
	2:30 - 4:30	2.00	DRLIN3	06	E	P		WIPER TRIP FROM 9,505' TO 8,000' WITH NO PROBLEMS - NO FILL
	4:30 - 6:00	1.50	DRLIN3	05	B	P		CIRCULATE HOLE CLEAN RAISE MUD WT TO 11.4 PPG, SPOT 12.0 PPG PILL ON BOTTOM 15' TO 20' FLARE ON BOTTOMS AFTER WIPER TRIP/ 2 TENTHS MUD CUT
	6:00 - 14:00	8.00	DRLIN3	06	A	P		TOOH FROM 9,505' TO BIT WITH NO PROBLEMS
	14:00 - 14:30	0.50	CSGPRO	14	B	P		PULL WEAR BUSHING
	14:30 - 15:00	0.50	CSGPRO	07	A	P		SERVICE RIG
	15:00 - 16:00	1.00	CSGPRO	12	A	P		PRE JOB SAFETY MEETING RU FRANKS CASING EQUIPMENT
	16:00 - 0:00	8.00	CSGPRO	12	C	P		RUN 4 1/2" PRODUCTION CASING TO 7,900' WITH NO HOLE PROBLEMS NOTE: LAY DOWN 8 JTS INSTALL BAFFEL PLATE IN FLOAT COLLAR RE-RUN 8 JTS CONTINUE IN HOLE
12/14/2012	0:00 - 1:00	1.00	CSGPRO	12	C	P		CONTINUE TO RUN 4 1/2" PRODUCTION CASING FROM 7,900' TO 9,496' , SHOE @ 9,496' / FLOAT @ 9473 / MVerde Marker @7,310' , DVTOOL @ 4,070.13 / X-O @ 4,067' HOLE IN GOOD SHAPE
	1:00 - 2:30	1.50	CSGPRO	05	A	P		CIRCULATE & CONDITION MUD @ 9,496' / MEANWHILE RIG DOWN FRANKS CASING EQUIPMENT / HOLD PREJOB SAFETY MEETING WITH BJ CEMENTERS

US ROCKIES REGION								
Operation Summary Report								
Well: MORGAN STATE 921-36C4BS BLUE						Spud Date: 7/9/2012		
Project: UTAH-UINTAH			Site: MORGAN STATE 921-36C PAD			Rig Name No: H&P 298/298, CAPSTAR 310/310		
Event: DRILLING			Start Date: 6/25/2012				End Date: 12/14/2012	
Active Datum: RKB @5,014.00usft (above Mean Sea Level)				UWI: NE/NW0/9/S/21/E/36/0/0/26/PM/N/645/W/0/2007/0/0				
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		RIG UP BJ CEMENTERS / PRESSURE TEST SURFACE EQUIPMENT TO 3000 PSI /PUMP 1ST STAGE CEMENT, 25 BBLs SPACER ; CEMENT 1110 SKS -14.3PPG -1.32 YIELD / 261 BBL / DROP PLUG / DISPLACE WITH 90 BBL WATER FOLLOWED WITH 57 BBL 11.5 PPG MUD/ BUMP PLUG WITH 2050 PSI / FLOATS HELD 1 1/2 BBL BACK TO INVENTORY / NO CEMENT BACK / SPACER WATER BACK TO SURFACE
	5:00 - 9:00	4.00	CSGPRO	13	E	P		DROP OPENING BOMB LET GRAVITATE FOR 20 MINS BJ PRESSURE UP ON DV TOOL TO 800 PSI , OPEN TOOL / BREAK CIRC WITH BJ / PUMP 10 BBL OF MUD / SWITCH OVER TO RIG PUMP / PUMP 3 BPM @ 200 PSI WHILE WAITING ON CEMENT
	9:00 - 11:30	2.50	CSGPRO	12	E	P		PUMP 2ND STAGE OF CEMENT, 25 BBLs SPACER ; CEMENT 415 SKS -12.0 PPG - 2.30 / 50 SKS -15.8PPG-1.16 YIELD/ DROP PLUG / DISPLACE WITH 63 BBL WATER / LIFT PRESSURE 950 PSI BUMP PLUG TO 2,127 PSI FLOAT HELD / SPACER BACK TO SURFACE / NO CEMENT TO SURFACE / 1 BBL WATER BACK TO INVENTORY / RIG DOWN BJ CEMENTERS
	11:30 - 13:30	2.00	CSGPRO	14	A	P		FLUSH BOP'S & EQUIPMENT / SET PACK OFF/ BLOW DOWN SURFACE EQUIPMENT / NIPPLE DOWN BOP'S & EQUIPMENT/ RELEASE RIG @ 13:30 12/14/12

US ROCKIES REGION

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	MORGAN STATE 921-36C4BS BLUE	Wellbore No.	OH
Well Name	MORGAN STATE 921-36C4BS	Wellbore Name	MORGAN STATE 921-36C4BS
Report No.	1	Report Date	3/4/2013
Project	UTAH-UJINTAH	Site	MORGAN STATE 921-36C PAD
Rig Name/No.		Event	COMPLETION
Start Date	2/7/2013	End Date	4/10/2013
Spud Date	7/9/2012	Active Datum	RKB @5,014.00usft (above Mean Sea Level)
UWI	NE/NW/09/S/21/E/36/0/26/PM/N/645W/0/2007/0/0		

1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly		Conveyed Method			

1.4 Initial Conditions

Fluid Type		Fluid Density		Gross Interval	6,406.0 (usft)-9,349.0 (usft)	Start Date/Time	3/4/2013 12:00AM
Surface Press		Estimate Res Press		No. of Intervals	72	End Date/Time	3/4/2013 12:00AM
TVD Fluid Top		Fluid Head		Total Shots	222	Net Perforation Interval	74.00 (usft)
Hydrostatic Press		Press Difference		Avg Shot Density	3.00 (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)	6,407.0	Charge Desc /Charge Manufacturer	
MD Top (usft)	6,406.0	Charge Weight (gram)	23.00
CCL-T S (usft)		Reason	PRODUCTIO
CCL@ (usft)			N

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	WASATCH/			6,406.0	6,407.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	

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	WASATCH/			6,417.0	6,418.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	WASATCH/			6,475.0	6,476.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	WASATCH/			6,488.0	6,489.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	WASATCH/			6,497.0	6,498.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	WASATCH/			6,505.0	6,506.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	WASATCH/			6,590.0	6,591.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	WASATCH/			6,601.0	6,602.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	WASATCH/			6,729.0	6,730.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	WASATCH/			6,743.0	6,744.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	WASATCH/			6,765.0	6,766.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	WASATCH/			6,803.0	6,804.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	WASATCH/			6,975.0	6,976.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	WASATCH/			7,033.0	7,035.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	WASATCH/			7,216.0	7,217.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	WASATCH/			7,232.0	7,233.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	WASATCH/			7,244.0	7,245.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	WASATCH/			7,303.0	7,304.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	WASATCH/			7,325.0	7,326.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			7,364.0	7,365.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			7,403.0	7,404.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			7,434.0	7,435.0	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	Misrun
3/4/2013 12:00AM	MESAVERDE/			7,584.0	7,585.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			7,658.0	7,659.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			7,670.0	7,671.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			7,706.0	7,707.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			7,727.0	7,728.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			7,769.0	7,770.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			7,825.0	7,826.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			7,862.0	7,863.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			7,895.0	7,896.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			7,955.0	7,956.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			7,973.0	7,975.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,049.0	8,050.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,154.0	8,155.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,226.0	8,227.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,249.0	8,250.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,292.0	8,293.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,313.0	8,314.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,343.0	8,344.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,380.0	8,381.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,406.0	8,407.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,423.0	8,424.0	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	Misrun
3/4/2013 12:00AM	MESAVERDE/			8,489.0	8,490.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,510.0	8,511.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,533.0	8,534.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,544.0	8,545.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,567.0	8,568.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,584.0	8,585.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,605.0	8,606.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,632.0	8,633.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,642.0	8,643.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,684.0	8,685.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,715.0	8,716.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,778.0	8,779.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,794.0	8,795.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,819.0	8,820.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,847.0	8,848.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,874.0	8,875.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,885.0	8,886.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,903.0	8,904.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,936.0	8,937.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			8,967.0	8,968.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			9,051.0	9,052.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

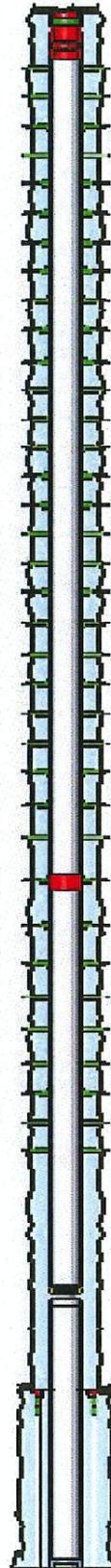
US ROCKIES REGION

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	Misrun
3/4/2013 12:00AM	MESAVERDE/			9,085.0	9,086.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			9,115.0	9,116.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			9,129.0	9,130.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			9,224.0	9,225.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			9,247.0	9,248.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			9,284.0	9,285.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			9,333.0	9,334.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/4/2013 12:00AM	MESAVERDE/			9,348.0	9,349.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic



US ROCKIES REGION									
Operation Summary Report									
Well: MORGAN STATE 921-36C4BS BLUE					Spud Date: 7/9/2012				
Project: UTAH-UINTAH			Site: MORGAN STATE 921-36C PAD			Rig Name No: SWABBCO 6/6			
Event: COMPLETION			Start Date: 2/7/2013		End Date: 4/10/2013				
Active Datum: RKB @5,014.00usft (above Mean Sea Level)				UWI: NE/NW0/9/S/21/E/36/0/0/26/PM/N/645/W/0/2007/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation	
1/29/2013	7:00 - 19:00	12.00	SUBSPR	32	A	P		1:30 PM (DAY 1)	
<p>MIRU CUDD COIL UNIT. NDWH, NUFV & BOP STACK. RIH W/ PTT 3-7/8" MILL & MUD MOTOR ON 2" COIL TUBING. TAG CEMENT STRINGER @ 4052'. ESTABLISH CIRCULATION, C/O TO DV TOOL @ 4067'. DRILL OUT DV TOOL IN 23 MINUTES. RIH TO PBTD @ 9461'. CIRCULATE WELL CLEAN WITH 2% KCL WATER. POOH W/ COIL. DISPLACE COIL & WELL HEAD W/ 10# BRINE WATER.</p> <p>7 PM SWI</p>									
2/7/2013	-	-							
2/27/2013	10:00 - 11:00	1.00	SUBSPR	33	C	P		<p>FILL SURFACE CSG. MIRU CAMERON QUICK TEST. PRESSURE TEST CSG & FRAC VALVES 1ST PSI TEST T/ 7000 PSI. HELD FOR 15 MIN LOST 58 PSI.</p> <p>NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI.</p> <p>PRESSURE TEST 8 5/8 X 4 1/2 TO 584 PSI HELD FOR 5 MIN LOST -115 PSI,BLED PSI OFF, REINSTALLED POP OFF SWFN</p>	
4/1/2013	13:00 - 18:00	5.00	FRAC	36	B	P		<p>COULDN'T PIMP INTO SURFACE CASING</p> <p>FRAC STG 1)WHP 1707 PSI, BRK 3279 PSI @ 4.9 BPM. ISIP 2408 PSI, FG. 0.7 ISIP 2845 PSI, FG. 0.75, NPI 437 PSI. SWI, XO T/ WL.</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 @ 9098' P/U PERF AS PER DESIGN. POOH, XO T/ FRAC.</p> <p>FRAC STG 2)WHP 2277 PSI. BRK 4239 PSI @ 6.6 BPM. ISIP 2674 PSI, FG. 0.74 ISIP 2916 PSI, FG. 0.76, NPI 242 PSI. SWI, XO T/ WL.</p> <p>PERF STG 3)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120- DEG PHASING. RIH SET CBP @ 8832' P/U PERF AS PER DESIGN. POOH, SWFN.</p>	

US ROCKIES REGION									
Operation Summary Report									
Well: MORGAN STATE 921-36C4BS BLUE					Spud Date: 7/9/2012				
Project: UTAH-UINTAH			Site: MORGAN STATE 921-36C PAD			Rig Name No: SWABBCO 6/6			
Event: COMPLETION			Start Date: 2/7/2013			End Date: 4/10/2013			
Active Datum: RKB @5,014.00usft (above Mean Sea Level)					UWI: NE/NW/0/9/S/21/E/36/0/0/26/PM/N/645/W/0/2007/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation	
4/2/2013	7:00 - 18:00	11,00	FRAC	36	B	P		<p>FRAC STG 3)WHP 2240 PSI, BRK 4648 PSI @ 4.7 BPM. ISIP 2191 PSI, FG. 0.69 ISIP 2525 PSI, FG. 0.73, NPI 334 PSI. SWI, XO T/ WL.</p> <p>PERF STG 4)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 8618' P/U PERF AS PER DESIGN. POOH, XO T/ FRAC.</p> <p>FRAC STG 4)WHP 2189 PSI, BRK 2729 PSI @ 6.3 BPM. ISIP 2196 PSI, FG. 0.7 ISIP 2664 PSI, FG. 0.75, NPI 468 PSI. SWI, XO T/ WL.</p> <p>PERF STG 5)PU 4 1/2 8K HAL CBP 7 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 8454' P/U PERF AS PER DESIGN. POOH, XO T/ FRAC.</p> <p>FRAC STG 5)WHP 1552 PSI, BRK 2401 PSI @ 4 BPM. ISIP 1684 PSI, FG. 0.64 ISIP 2582 PSI, FG. 0.75, NPI 898 PSI. SWI, XO T/ WL.</p> <p>PERF STG 6)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 8185' P/U PERF AS PER DESIGN. POOH, XO T/ FRAC.</p> <p>FRAC STG 6)WHP 1668 PSI, BRK 2730 PSI @ 4.2 BPM. ISIP 1855 PSI, FG. 0.67 ISIP 2738 PSI, FG. 0.78, NPI 883 PSI. SWI, XO T/ WL.</p> <p>PERF STG 7)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 7846' P/U PERF AS PER DESIGN. POOH, XO T/ FRAC.</p> <p>FRAC STG 7)WHP 1584 PSI, BRK 2645 PSI @ 4.8 BPM. ISIP 1592 PSI, FG. 0.65 ISIP 2092 PSI, FG. 0.71, NPI 500 PSI. SWI, XO T/ WL.</p> <p>PERF STG 8)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 7465' P/U PERF AS PER DESIGN. SWIFN.</p>	

US ROCKIES REGION								
Operation Summary Report								
Well: MORGAN STATE 921-36C4BS BLUE					Spud Date: 7/9/2012			
Project: UTAH-UINTAH			Site: MORGAN STATE 921-36C PAD			Rig Name No: SWABBCO 6/6		
Event: COMPLETION			Start Date: 2/7/2013			End Date: 4/10/2013		
Active Datum: RKB @5,014.00usft (above Mean Sea Level)				UWI: NE/NW/0/9/S/21/E/36/0/0/26/PM/N/645/W/0/2007/0/0				
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		<p>FRAC STG 8)WHP 380 PSI, BRK 2629 PSI @ 4.4 BPM. ISIP 1117 PSI, FG. 0.59 ISIP 2053 PSI, FG. 0.72, NPI 936 PSI. SWI, XO T/ WL.</p> <p>PERF STG 9)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH T/ 3500' WIRE LINE HIGH STRANDED. COULD NOT GO IN ANY MORE. POOH W/ WL & GUNS. RD WL TRUCK. RU NEW WL TRUCK. PU CBP & GUNS. RIH SET CBP @ 7065' P/U PERF AS PER DESIGN. POOH, XO T/ FRAC.</p> <p>FRAC STG 9)WHP 341 PSI, BRK 1972 PSI @ 4.4 BPM. ISIP 1077 PSI, FG. 0.6 ISIP 2058 PSI, FG. 0.74, NPI 981 PSI. SWI, XO T/ WL.</p> <p>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 @ 6632' P/U PERF AS PER DESIGN. POOH, XO T/ FRAC.</p> <p>FRAC STG 10)WHP 525 PSI, BRK 1703 PSI @ 4.6 BPM. ISIP 1371 PSI, FG. 0.65 ISIP 1829 PSI, FG. 0.72, NPI 458 PSI. SWI, XO T/ WL.</p> <p>PU 4 1/2 8K HAL CBP. RIH SET KILL PLUG @ 6356'. POOH, SWI. READY FOR DRL OUT.</p> <p>TOTAL SAND = 294,154 LBS TOTAL CLFL = 12,963 BBL</p>
4/9/2013	7:00 - 7:30	0.50	DRLOUT	48		P		RIG UP
	7:30 - 17:00	9.50	DRLOUT	31	I	P		<p>MOVE IN RIG UP, NDWH, NUBOPS, P/U 3 7/8 BIT, POBS, SN, TIH 150 J-55JNTS, 6' SHORT JOINT AND 52 JTS L-80 JNTS, RIGUP POWER SWIVEL, CIRC HOLE TEST BOPS @ 3000 PSI, MILL 4 CBP'S, 7465', 247 JTS, SWIFN</p>
4/10/2013	7:00 - 7:30	0.50	DRLOUT	48		P		LANDING TBG

US ROCKIES REGION									
Operation Summary Report									
Well: MORGAN STATE 921-36C4BS BLUE					Spud Date: 7/9/2012				
Project: UTAH-UINTAH			Site: MORGAN STATE 921-36C PAD			Rig Name No: SWABBCO 6/6			
Event: COMPLETION			Start Date: 2/7/2013			End Date: 4/10/2013			
Active Datum: RKB @5,014.00usft (above Mean Sea Level)					UWI: NE/NW0/9/S/21/E/36/0/0/26/PM/N/645/W/0/2007/0/0				
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 6 CBP'S, 297 JTS, 9098',C/O 40' SAND,TO PBTd 9473', 300 JTS, POOH TO 8827.12', 279 JTS, LAND TBG, ND BOP'S, NUWH, POBS, 2500#, PRESSURE TEST FLOW LINE 3000#, RDMO TURNED TO PROD 2:00 PM PLUG# 1 6356' 10' SAND 5 MIN 0# KICK PLUG# 2 6632' 25' SAND 5 MIN 0# KICK PLUG# 3 7065' 30' SAND 5 MIN 100# KICK PLUG# 4 7465' 30' SAND 5 MIN 100# KICK PLUG# 5 7846' 30' SAND 5 MIN 100# KICK PLUG# 6 8185' 25' SAND 5 MIN 150# KICK PLUG# 7 8454' 25' SAND 5 MIN 100# KICK PLUG# 8 8618' 30' SAND 5 MIN 150# KICK PLUG# 9 8832' 30' SAND 5 MIN 200# KICK PLUG# 10 9098' 30' SAND 5 MIN 200# KICK PBTd 9473' BTM PERF 9349' TBG 150 JTS J-55 4733.44' BTM TBG 129 JTS L-80 4065.65' TOP KB 25.00' HANGER 4.125" .83' SN 1.875" 2.20' EOT 8827.12' NOTE: SHORT JT AT 4085.48'-4091.48' FRAC WTR 12,963 BBLS RCVD 2,700 BBLS LTR 10,263 BBLS	
	17:00 - 17:00	0.00	DRLOUT	50				WELL TURNED TO SALES @ 1630 HR ON 4/10/2013. 3100 MCFD, 1560 BWPd, FCP 2775#, FTP 2440#, 20/64" CK.	

Project: UTAH - UTM (feet), NAD27, Zone 12N
 Site: UINTAH MORGAN STATE 921-36C PAD
 Well: MORGAN STATE 921-36C4BS
 Wellbore: MORGAN STATE 921-36C4BS
 Section: NE 1/4 NW 1/4 OF Sec.36-T9S-R21E
 SHL: 645' FNL 2007' FWL
 Design: MORGAN STATE 921-36C4BS (wp01)
 Latitude: 39.998004
 Longitude: -109.501634
 GL: 4988.00
 KB: 26' RKB + 4988' GL @ 6014.00ft (H&P 298)

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
1376.00	1377.75	GREEN RIVER
1678.00	1680.45	BIRDS NEST
2175.00	2178.38	MAHOGANY MARKER
4633.00	4637.20	WASATCH
5240.00	5244.21	INTERCEPT
7316.00	7320.24	MESAVERDE
9498.00	9502.26	SEGO



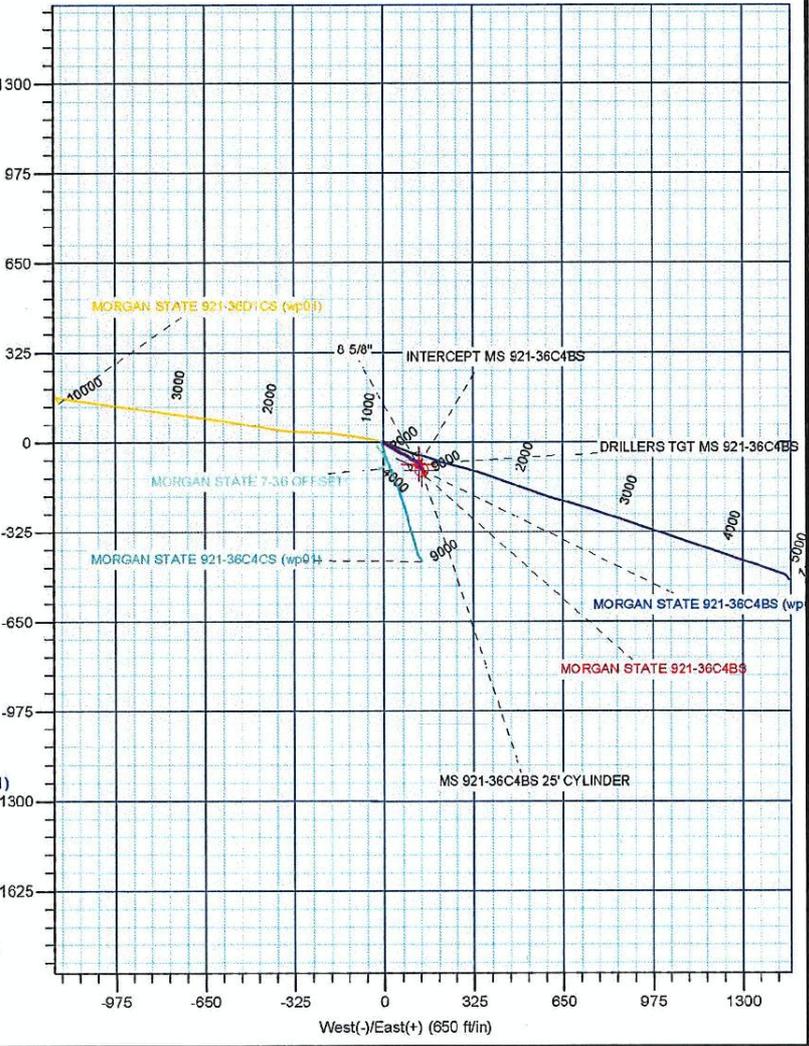
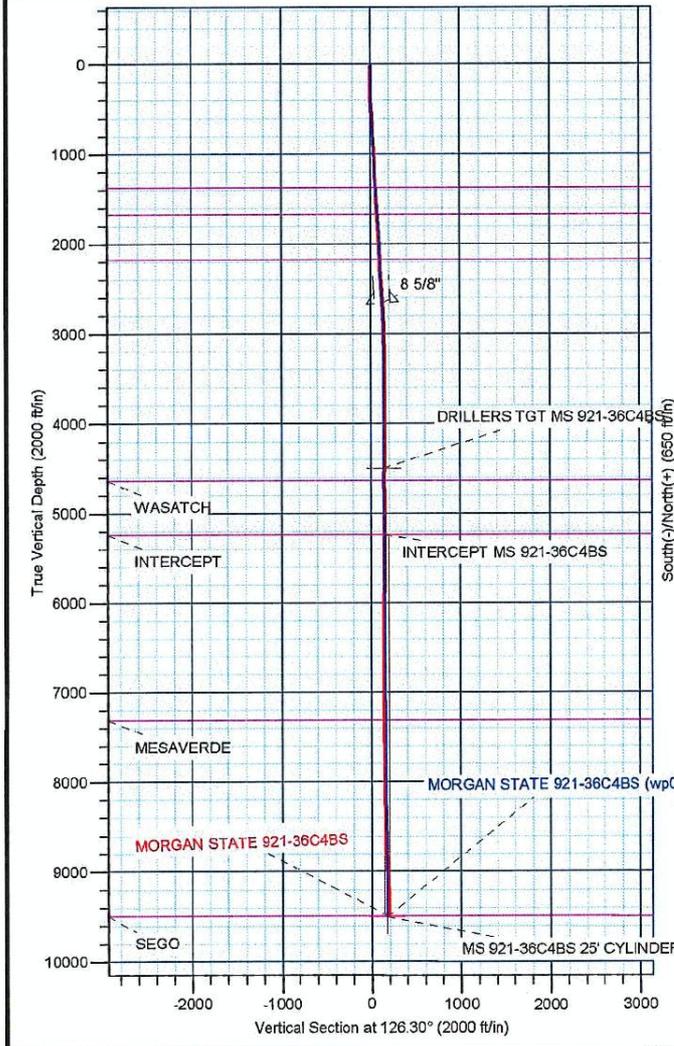
WELL DETAILS: MORGAN STATE 921-36C4BS					
+N/-S	+E/-W	Northing	Ground Level: Easting	Longitude	Slot
0.00	0.00	14528844.98	4988.00 Latitude 39.998004	-109.501634	

CASING DETAILS			
TVD	MD	Name	Size
2654.43	2658.42	8 5/8"	8-5/8

Azimuths to True North
 Magnetic North: 10.90'
 Magnetic Field
 Strength: 52180.8nT
 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 921-36C4BS	4500.00	-78.00	124.00	14528769.07	2060192.44	39.997790	-109.501191	Circle (Radius: 15.00)		
INTERCEPT MS 921-36C4BS	5240.00	-81.04	125.66	14528766.06	2060194.14	39.997781	-109.501185	Point		
MS 921-36C4BS 25' CYLINDER	9505.00	-99.79	135.86	14528747.48	2060204.66	39.997730	-109.501149	Circle (Radius: 25.00)		

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	
2636.00	3.60	114.75	2632.05	-67.35	111.36	0.00	0.00	129.62	
2978.73	0.23	155.00	2974.54	-72.48	121.43	1.00	177.51	140.77	
4481.15	0.23	155.00	4476.94	-77.96	123.98	0.00	0.00	146.07	
4504.20	0.00	0.00	4500.00	-78.00	124.00	1.00	180.00	146.11	
4599.79	0.29	151.44	4595.59	-78.21	124.11	0.30	151.44	146.33	
9509.26	0.29	151.44	9505.00	-99.79	135.86	0.00	0.00	168.57	





Weatherford®

US ROCKIES REGION PLANNING

**UTAH - UTM (feet), NAD27, Zone 12N
UINTAH_MORGAN STATE 921-36C PAD
MORGAN STATE 921-36C4BS**

MORGAN STATE 921-36C4BS

Design: MORGAN STATE 921-36C4BS

Standard Survey Report

20 December, 2012





Anadarko Petroleum Corp
Survey Report



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well MORGAN STATE 921-36C4BS
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 921-36C4BS	North Reference:	True
Wellbore:	MORGAN STATE 921-36C4BS	Survey Calculation Method:	Minimum Curvature
Design:	MORGAN STATE 921-36C4BS	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 921-36C4BS					
Well Position	+N/-S	0.00 ft	Northing:	14,528,844.98 usft	Latitude:	39.998004
	+E/-W	0.00 ft	Easting:	2,060,067.14 usft	Longitude:	-109.501634
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,988.00 ft

Wellbore	MORGAN STATE 921-36C4BS				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/29/2012	10.90	65.83	52,191

Design	MORGAN STATE 921-36C4BS				
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 (°)	
	0.00	0.00	0.00	128.95	

Survey Program	Date 12/20/2012				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
248.00	2,636.00	Survey #1 (MORGAN STATE 921-36C4BS)	MWD	MWD - STANDARD	
2,845.00	9,505.00	Survey #2 (MORGAN STATE 921-36C4BS)	MWD	MWD - STANDARD	

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)	
17.00	0.00	0.00	17.00	0.00	0.00	0.00	0.00	0.00	0.00	
248.00	0.18	244.91	248.00	-0.15	-0.33	-0.16	0.08	0.08	0.00	
339.00	0.70	165.02	339.00	-0.75	-0.31	0.23	0.76	0.57	-87.79	
429.00	1.76	116.94	428.98	-1.91	1.06	2.02	1.55	1.18	-53.42	
522.00	3.25	121.60	521.89	-3.94	4.58	6.04	1.62	1.60	5.01	
617.00	3.88	122.79	616.70	-7.09	9.57	11.90	0.67	0.66	1.25	
711.00	4.48	121.60	710.45	-10.74	15.37	18.71	0.64	0.64	-1.27	
804.00	3.69	130.03	803.21	-14.56	20.76	25.30	1.06	-0.85	9.06	
900.00	3.34	115.71	899.04	-17.76	25.65	31.11	0.98	-0.36	-14.92	
993.00	3.89	108.36	991.85	-19.93	31.08	36.70	0.77	0.59	-7.90	



Anadarko Petroleum Corp
Survey Report



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well MORGAN STATE 921-36C4BS
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 921-36C4BS	North Reference:	True
Wellbore:	MORGAN STATE 921-36C4BS	Survey Calculation Method:	Minimum Curvature
Design:	MORGAN STATE 921-36C4BS	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)	
1,087.00	3.61	110.81	1,085.65	-21.99	36.87	42.50	0.34	-0.30	2.61	
1,183.00	2.81	129.33	1,181.50	-24.55	41.52	47.72	1.35	-0.83	19.29	
1,279.00	2.81	133.81	1,277.39	-27.67	45.04	52.42	0.23	0.00	4.67	
1,372.00	3.25	122.83	1,370.26	-30.68	48.90	57.31	0.78	0.47	-11.81	
1,466.00	3.59	118.70	1,464.09	-33.54	53.72	62.86	0.45	0.36	-4.39	
1,557.00	4.03	120.22	1,554.89	-36.52	58.98	68.82	0.50	0.48	1.67	
1,651.00	4.31	117.55	1,648.64	-39.81	64.97	75.55	0.36	0.30	-2.84	
1,745.00	4.92	115.01	1,742.33	-43.15	71.75	82.93	0.68	0.65	-2.70	
1,837.00	3.78	124.06	1,834.07	-46.52	77.84	89.78	1.44	-1.24	9.84	
1,932.00	3.78	124.23	1,928.86	-50.03	83.02	96.02	0.01	0.00	0.18	
2,027.00	2.29	123.97	2,023.73	-52.85	87.18	101.03	1.57	-1.57	-0.27	
2,121.00	2.03	120.89	2,117.66	-54.76	90.17	104.55	0.30	-0.28	-3.28	
2,214.00	2.29	125.64	2,210.59	-56.69	93.09	108.04	0.34	0.28	5.11	
2,308.00	2.37	129.24	2,304.51	-59.01	96.13	111.85	0.18	0.09	3.83	
2,403.00	2.81	119.31	2,399.42	-61.39	99.68	116.11	0.66	0.46	-10.45	
2,496.00	3.17	117.73	2,492.29	-63.71	103.94	120.88	0.40	0.39	-1.70	
2,636.00	3.60	114.75	2,632.05	-67.35	111.36	128.94	0.33	0.31	-2.13	
TIE ON TO SDI MWD SURVEY										
2,845.00	2.62	97.93	2,840.74	-70.75	122.05	139.40	0.64	-0.47	-8.05	
FIRST WFT MWD SURVEY										
2,939.00	2.13	103.90	2,934.66	-71.47	125.87	142.82	0.58	-0.52	6.35	
3,034.00	2.10	113.79	3,029.60	-72.60	129.18	146.10	0.39	-0.03	10.41	
3,129.00	2.06	163.55	3,124.54	-74.94	131.26	149.19	1.84	-0.04	52.38	
3,223.00	2.94	200.42	3,218.46	-78.82	130.89	151.34	1.90	0.94	39.22	
3,318.00	3.63	208.55	3,313.30	-83.74	128.61	152.66	0.87	0.73	8.56	
3,409.00	1.75	193.30	3,404.20	-87.62	126.91	153.78	2.19	-2.07	-16.76	
3,503.00	0.38	139.30	3,498.18	-89.26	126.78	154.71	1.66	-1.46	-57.45	
3,598.00	1.31	300.80	3,593.17	-88.94	126.06	153.94	1.76	0.98	170.00	
3,693.00	1.06	277.30	3,688.15	-88.27	124.25	152.12	0.57	-0.26	-24.74	
3,787.00	0.88	246.67	3,782.14	-88.45	122.73	151.05	0.58	-0.19	-32.59	
3,882.00	1.13	218.55	3,877.13	-89.47	121.47	150.71	0.57	0.26	-29.60	
3,977.00	0.63	60.80	3,972.12	-89.95	121.34	150.91	1.82	-0.53	-166.05	
4,071.00	1.13	17.92	4,066.11	-88.81	122.08	150.77	0.84	0.53	-45.62	
4,166.00	0.63	12.55	4,161.10	-87.41	122.48	150.20	0.53	-0.53	-5.65	
4,260.00	0.13	319.42	4,255.10	-86.83	122.53	149.87	0.60	-0.53	-56.52	
4,355.00	0.00	306.05	4,350.10	-86.74	122.46	149.76	0.14	-0.14	0.00	
4,449.00	0.31	156.17	4,444.10	-86.98	122.56	149.99	0.33	0.33	0.00	
4,544.00	0.81	23.80	4,539.09	-86.60	122.93	150.04	1.10	0.53	-139.34	
4,638.00	0.44	95.30	4,633.09	-86.02	123.56	150.17	0.84	-0.39	76.06	
4,733.00	0.88	124.05	4,728.08	-86.46	124.53	151.20	0.57	0.46	30.26	
4,827.00	1.06	149.30	4,822.07	-87.62	125.57	152.73	0.49	0.19	26.86	
4,922.00	1.63	8.05	4,917.06	-87.03	126.21	152.86	2.68	0.60	-148.68	
5,017.00	1.19	16.80	5,012.03	-84.75	126.68	151.80	0.51	-0.46	9.21	



Anadarko Petroleum Corp
Survey Report



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well MORGAN STATE 921-36C4BS
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 921-36C4BS	North Reference:	True
Wellbore:	MORGAN STATE 921-36C4BS	Survey Calculation Method:	Minimum Curvature
Design:	MORGAN STATE 921-36C4BS	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)	
5,111.00	1.13	29.67	5,106.01	-83.01	127.42	151.28	0.28	-0.06	13.69	
5,206.00	0.75	32.55	5,201.00	-81.67	128.22	151.06	0.40	-0.40	3.03	
5,300.00	0.50	29.42	5,294.99	-80.80	128.75	150.92	0.27	-0.27	-3.33	
5,394.00	0.31	83.80	5,388.99	-80.41	129.21	151.04	0.43	-0.20	57.85	
5,489.00	0.38	131.05	5,483.99	-80.59	129.70	151.53	0.30	0.07	49.74	
5,584.00	1.06	311.41	5,578.98	-80.22	129.28	150.97	1.52	0.72	-189.10	
5,678.00	0.81	295.92	5,672.97	-79.35	128.03	149.45	0.38	-0.27	-16.48	
5,772.00	0.63	280.30	5,766.96	-78.97	126.92	148.35	0.28	-0.19	-16.62	
5,867.00	0.44	262.30	5,861.96	-78.93	126.05	147.64	0.26	-0.20	-18.95	
5,962.00	0.44	223.43	5,956.96	-79.24	125.44	147.36	0.31	0.00	-40.92	
6,056.00	0.63	219.92	6,050.95	-79.90	124.86	147.33	0.21	0.20	-3.73	
6,151.00	0.63	205.80	6,145.95	-80.77	124.29	147.44	0.16	0.00	-14.86	
6,245.00	0.81	205.42	6,239.94	-81.83	123.78	147.71	0.19	0.19	-0.40	
6,340.00	0.94	197.80	6,334.93	-83.18	123.26	148.15	0.18	0.14	-8.02	
6,435.00	1.50	294.55	6,429.91	-83.41	121.89	147.23	1.96	0.59	101.84	
6,529.00	1.81	354.92	6,523.88	-81.42	120.64	145.00	1.79	0.33	64.22	
6,624.00	1.31	4.30	6,618.85	-78.84	120.59	143.34	0.59	-0.53	9.87	
6,718.00	0.94	11.05	6,712.83	-77.01	120.81	142.37	0.42	-0.39	7.18	
6,812.00	0.81	17.67	6,806.82	-75.62	121.16	141.77	0.17	-0.14	7.04	
6,907.00	0.69	32.55	6,901.81	-74.50	121.68	141.46	0.24	-0.13	15.66	
7,001.00	0.88	60.80	6,995.80	-73.67	122.61	141.67	0.45	0.20	30.05	
7,096.00	0.88	70.85	7,090.79	-73.08	123.94	142.32	0.16	0.00	10.58	
7,190.00	0.88	101.42	7,184.78	-72.98	125.33	143.35	0.49	0.00	32.52	
7,285.00	0.50	258.92	7,279.77	-73.21	125.63	143.73	1.43	-0.40	165.79	
7,381.00	0.56	233.05	7,375.77	-73.57	124.85	143.34	0.25	0.06	-26.95	
7,474.00	0.69	227.55	7,468.77	-74.22	124.07	143.15	0.15	0.14	-5.91	
7,568.00	0.50	233.30	7,562.76	-74.85	123.33	142.96	0.21	-0.20	6.12	
7,663.00	0.38	172.17	7,657.76	-75.41	123.04	143.09	0.48	-0.13	-64.35	
7,757.00	0.88	160.17	7,751.75	-76.39	123.32	143.93	0.55	0.53	-12.77	
7,852.00	1.44	151.92	7,846.73	-78.13	124.13	145.66	0.61	0.59	-8.68	
7,946.00	1.94	147.30	7,940.69	-80.52	125.55	148.25	0.55	0.53	-4.91	
8,040.00	0.38	134.30	8,034.67	-82.07	126.63	150.07	1.67	-1.66	-13.83	
8,135.00	1.25	106.92	8,129.66	-82.59	127.85	151.35	0.98	0.92	-28.82	
8,229.00	1.44	118.92	8,223.63	-83.46	129.86	153.46	0.36	0.20	12.77	
8,324.00	1.31	128.30	8,318.61	-84.71	131.76	155.72	0.27	-0.14	9.87	
8,419.00	1.13	132.05	8,413.58	-86.01	133.31	157.74	0.21	-0.19	3.95	
8,513.00	1.06	131.17	8,507.57	-87.21	134.65	159.54	0.08	-0.07	-0.94	
8,607.00	1.31	138.92	8,601.55	-88.59	136.01	161.47	0.32	0.27	8.24	
8,702.00	1.56	161.67	8,696.52	-90.64	137.13	163.62	0.65	0.26	23.95	
8,796.00	2.56	168.80	8,790.46	-93.91	137.94	166.31	1.10	1.06	7.59	
8,891.00	2.38	151.92	8,885.37	-97.73	139.28	169.76	0.79	-0.19	-17.77	
8,985.00	2.56	151.55	8,979.28	-101.30	141.20	173.49	0.19	0.19	-0.39	
9,080.00	2.44	155.42	9,074.19	-105.00	143.05	177.26	0.22	-0.13	4.07	
9,174.00	2.56	157.67	9,168.10	-108.76	144.68	180.89	0.16	0.13	2.39	



Anadarko Petroleum Corp
Survey Report



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well MORGAN STATE 921-36C4BS
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 921-36C4BS	North Reference:	True
Wellbore:	MORGAN STATE 921-36C4BS	Survey Calculation Method:	Minimum Curvature
Design:	MORGAN STATE 921-36C4BS	Database:	edmp

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)
9,268.00	2.31	161.42	9,262.02	-112.50	146.08	184.33	0.32	-0.27	3.99
9,363.00	2.25	160.42	9,356.94	-116.07	147.32	187.54	0.08	-0.06	-1.05
9,440.00	2.06	153.55	9,433.89	-118.74	148.44	190.09	0.42	-0.25	-8.92
LAST WFT MWD SURVEY									
9,505.00	2.06	153.55	9,498.85	-120.83	149.48	192.21	0.00	0.00	0.00
PROJECTION TO TD									

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2,636.00	2,632.05	-67.35	111.36	TIE ON TO SDI MWD SURVEY
2,845.00	2,840.74	-70.75	122.05	FIRST WFT MWD SURVEY
9,440.00	9,433.89	-118.74	148.44	LAST WFT MWD SURVEY
9,505.00	9,498.85	-120.83	149.48	PROJECTION TO TD

Checked By: _____ Approved By: _____ Date: _____

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: 7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	8. WELL NAME and NUMBER: MORGAN STATE 921-36C4BS
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	9. API NUMBER: 43047522730000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0645 FNL 2007 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: NATURAL 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: 10/16/2015	<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 checked="" 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.
 KERR-MCGEE OIL & GAS ONSHORE, L.P. IS REQUESTING TO PLUG AND ABANDON THE MORGAN STATE 921-36C4BS DUE TO A FAILED FISHING OPERATIONS. SEE THE ATTACHED PLUG AND ABANDON PROCEDURES. VERBAL APPROVAL GIVEN BY DUSTIN DOUCET 10/15/2015.

**Approved by the
Utah Division of
Oil, Gas and Mining**

Date: October 16, 2015
 By: 

Please Review Attached Conditions of Approval

NAME (PLEASE PRINT) Doreen Green	PHONE NUMBER 435 781-9758	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 10/16/2015	



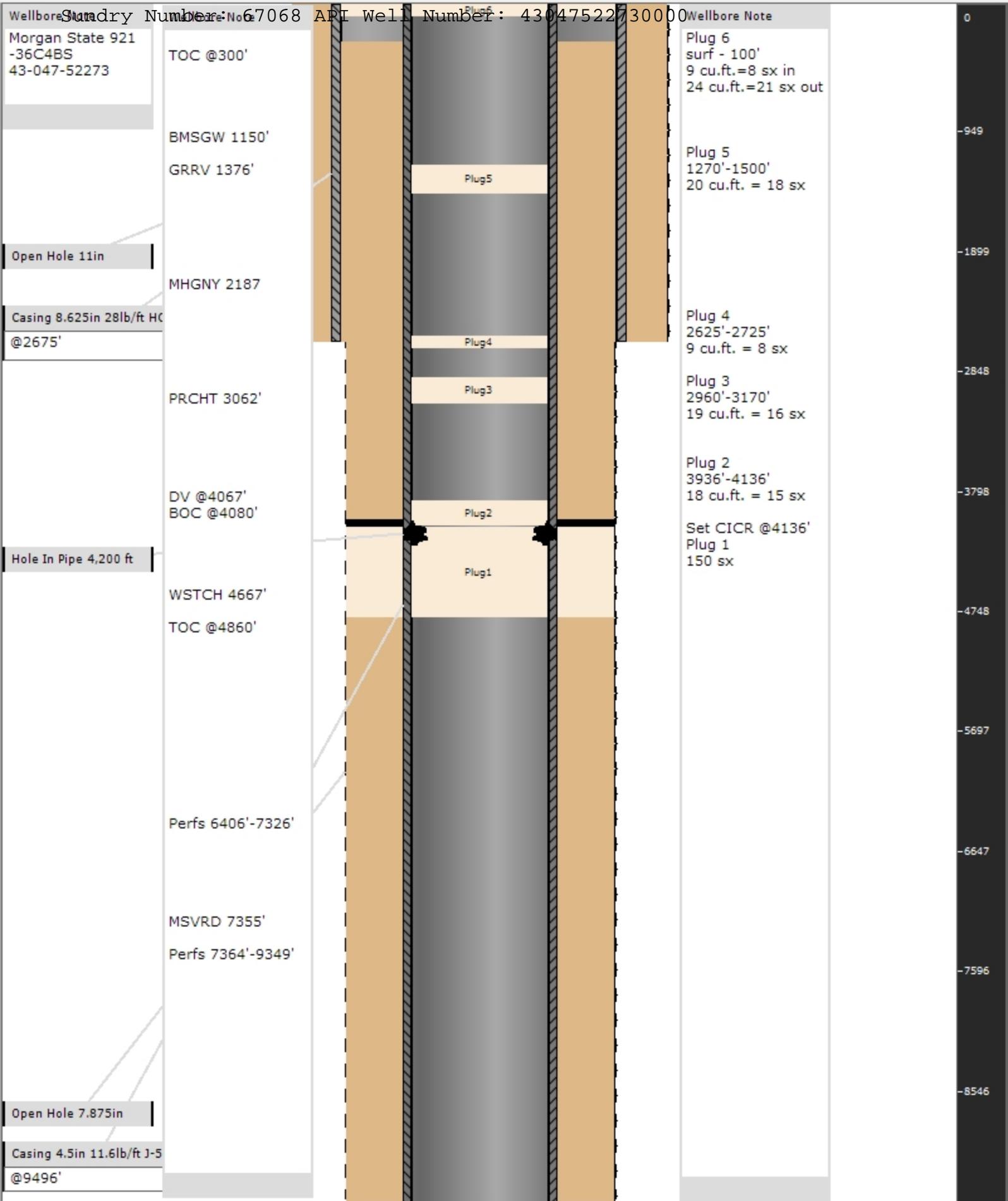
The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43047522730000

1. Notify the Division at least 24 hours prior to conducting abandonment operations. Please call Dan Jarvis at 801-538-5338. 2. Amend Plug #1. Attempt to squeeze 150 sx cement under CICR @4136'. If unable to squeeze entire volume, proceed to Plug #2. 3. Amend Plug #2. Spot plug (+/- 15 sx) 3936'-4136'. 4. All balanced plugs shall be tagged to ensure that they are at the depth specified. 5. All annuli shall be cemented from a minimum depth of 100' to the surface. 6. Surface reclamation shall be done in accordance with R649-3-34 – Well Site Restoration. 7. All requirements in the Oil and Gas Conservation General Rule R649-3-24 shall apply. 8. If there are any changes to the procedure or the wellbore configuration, notify Dustin Doucet at 801-538-5281 (office) or 801-733-0983 (home) prior to continuing with the procedure. 9. All other requirements for notice and reporting in the Oil and Gas Conservation General Rules shall apply.



Morgan State 921-36C4BS
2007' FWL & 645' FNL
NENW SEC. 36, T9S, R21E
Uintah County, UT

KBE: 5014' API NUMBER: 4304752273
GLE: 4988' LEASE NUMBER: ML 22265
TD: 9505' LAT/LONG: 39.998004/-109.501634
PBTD: 9473'

CASING :

11" hole
8 5/8" 28# J-55 @ 2,675'
Cmt w/675 TOC @ surface

7.875" hole
4.5" 11.6# K-55 @ 6205'
Cmt w/1525 sx, TOC @ 280'

PERFORATIONS: Wasatch 6406' - 9349'

TUBING: Fish Top @ 4204'
41 jts of 2 3/8" J-55 4.7#
129 jts of 2 3/8" L-80 4.7#

Tubular/Borehole	Drift inches	Collapse psi	Burst psi	Capacities		
				Gal./ft.	Cuft./ft.	Bbl./ft.
4.5" 11.6# I-80	3.875	6360	7780	0.6528	0.0873	0.0155
8.625" 28# J-55	8.845	2680	3390	2.6223	0.3506	0.0624
Annular Capacities						
4.5" csg X 8.625 28# csg				1.7961	0.2401	0.0428
4.5" csg X 7.875 borehole				1.704	0.2278	0.0406
8.625" csg X 11" borehole				1.9017	0.2542	0.0453

GEOLOGIC INFORMATION:

Formation	Depth to top, ft.
Uinta	Surface
Green River	1376'
Birds Nest	1760'
Mahogany	2187'
Parachute	3062'
Wasatch	4667'

USDW: <http://geology.utah.gov/online/ss/ss-144/ss-144pl1.pdf>

USDW Depth ~1400' From Surface

WORKOVER SUMMARY:

10/1/15: Well worked over for belived parted tubing. Found out that tubing fell from tubing hangar 800'. We were able to fish out 109 of the 279 joints in hole.

10/2/15-10/14/15: Fished on well with no success. Attempted to mill to achieve better fish top, believed to have milled through tubing in zone of no cement (4080'-4860'). Well started to produce oil from what we believe is the green river formation. Estimated total spend on fishing \$175k.

10/15/15: Pressure tested well at 4136' to 1500 psi, it held. Prepped well for P&A by setting Cement Retainer at 4136'.

MORGAN STATE 921-36C4BS PLUG & ABANDONMENT PROCEDURE

GENERAL

- H₂S MAY BE PRESENT. CHECK FOR H₂S AND TAKE APPROPRIATE PRECAUTIONS.
- CEMENT QUANTITIES BELOW ASSUME NEAT CLASS G, YIELD 1.145 CUFT./SX. IF A DIFFERENT PRODUCT IS USED, WELLSITE PERSONNEL ARE RESPONSIBLE FOR CORRECTING QUANTITIES TO YIELD THE STATED SLURRY VOLUME. WHEN SQUEEZING, INCLUDE 10% EXCESS PER 1000' OF DEPTH.
- TREATED FRESH WATER WILL BE PLACED BETWEEN ALL PLUGS INSTEAD OF BRINE.
- ALL DISPLACEMENT FLUID SHALL CONTAIN CORROSION INHIBITOR AND BIOCIDES. PREMIX 5 GALLONS PER 100 BBLs FLUID.
- NOTIFY APPROPRIATE AGENCY 24 HOURS BEFORE MOVING ON LOCATION.
- A GPS READING WILL NEED TO BE TAKEN AT THE WELL SITE AND RECORDED IN OPENWELLS. PLEASE TAKE IT TO THE 6TH DECIMAL PLACE.

PROCEDURE

Note: Approx. **132 sx** Class "G" cement needed for procedure & **(2) 4.5" Cement Retainer**

1. A GPS READING WILL NEED TO BE TAKEN AT THE WELL SITE AND RECORDED IN OPENWELLS. PLEASE TAKE IT TO THE 6TH DECIMAL PLACE.
2. MIRU. KILL WELL AS NEEDED. ND WH, NU AND TEST BOPE.
3. POOH W/ TBG & L/D SAME. RU WIRELINE AND MAKE A GAUGE RING RUN TO CHECK FOR FILL.
4. **PLUG #1, ISOLATE FISH TOP AND LOWER ZONES (4136')**:RIH W/ 4 ½" CR. SET @ **4136'**. STING INTO CR AND PUMP AT LEAST 50 SXS CEMENT TO ISOLATE FISH TOP AND CASING HOLE.
5. **PLUG #2 100' ON TOP OF CR (4136-4036')**:PUH 10', DISPLACE **8.73 CUFT / 8 SX** ON TOP OF CR. PUH ABOVE TOC (~4036'). REVERSE CIRCULATE W/ TREATED WATER (~13.4 BBLs).
6. **PLUG #3, PROTECT PARACHUTE (3062')**: PUH TO ~**3170'**. BRK CIRC W/ FRESH WATER. DISPLACE **18.3 CUFT / 16 SX** AND BALANCE PLUG W/ **TOC @ ~2960'** (210' COVERAGE). PUH ABOVE TOC. REVERSE CIRCULATE W/ TREATED WATER (~2.86 BBLs).
7. **PLUG #4, PROTECT SURFACE SHOE (2675')**:PUH TO ~**2725'**. BRK CIRC W/ FRESH WATER. DISPLACE **8.73 CUFT / 8 SX** AND BALANCE PLUG W/ **TOC @ ~2625'** (100' COVERAGE). PUH ABOVE TOC. REVERSE CIRCULATE W/ TREATED WATER (~17.4 BBLs).
8. **PLUG #5, PROTECT USDW (~1400') & GREEN RIVER (1376')**:PUH TO ~**1500'**. BRK CIRC W/ FRESH WATER. DISPLACE **20.08 CUFT / 18 SX** AND BALANCE PLUG W/ **TOC @ ~1270'** (230' COVERAGE). PUH ABOVE TOC. REVERSE CIRCULATE W/ TREATED WATER (~18.1 BBLs).
9. **BACKSIDE SQUEEZE (100')**: POOH AND RIG UP WIRELINE. RIH WITH PERF GUNS FOR 4.5" CASING @ 4 SPF/ 4' GUN. PERFORATE CASING AT ~100' (TOC @ ~280'). POOH AND CONTROL WELL WITH FRESH WATER AS NECESSARY. RIH WITH 4.5 CIRC AND SET 30' ABOVE PERFORATIONS. POOH AND RIG DOWN WIRELINE. RIH WITH TUBING AND PUMP ~26 SX (100' PLUS 30' FOR RETAINER OR UNTIL RETURNS ARE SEEN AT SURFACE.
10. **PLUG #6, FILL SURFACE HOLE:** POOH. HOOK UP 1" PIPE AND PUMP **6.11 CUFT / ~6 SX** OR SUFFICIENT VOLUME TO FILL 4 ½" CASING 70' TO SURFACE.
11. CUT OFF WELLHEAD AND INSTALL MARKER PER REGULATIONS.
12. RDMO. TURN OVER TO OPERATIONS FOR SURFACE REHAB. SURFACE RECLAMATION TO BE PERFORMED IN ACCORDANCE TO REGULATIONS.

RKS 10/15/2015

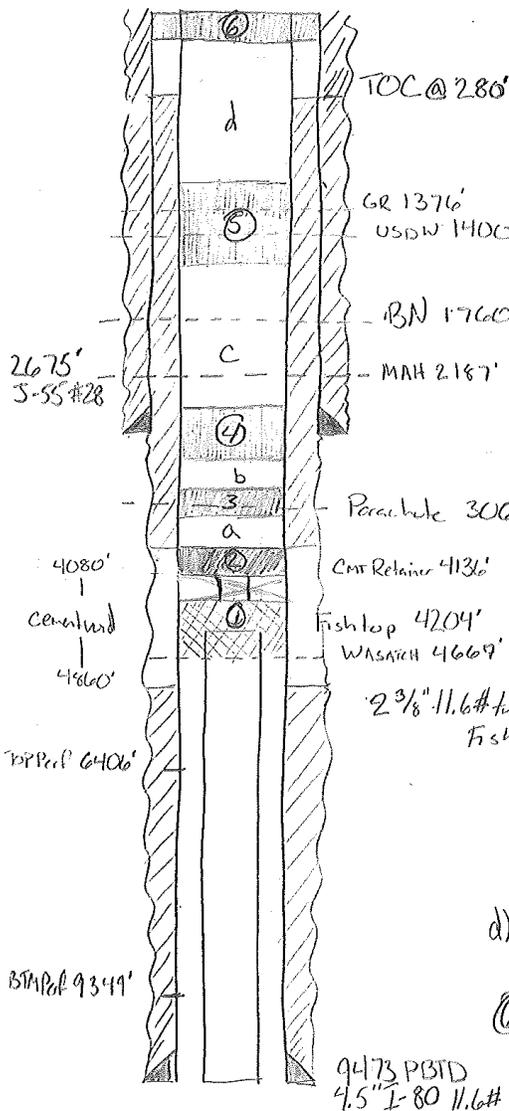
APC 206 2/01



PROJECT COMPUTATIONS

NO. _____ OF _____ SHEETS

DATE 10/15/15 PROJECT 132 SXS CNT JOB NO. _____
 BY Ryckers CHK.: _____ SUBJECT MS 921 36C4BS P/A



- ① Pump 50 SXS into CMT Retainer
- ② Spot 100' Cmt on Cement Retainer (4136-4036)
 $100' \times .0873 = \frac{8.73}{1.145} = \underline{8 \text{ SXS}}$
- ③ (4036 → 3170) = 866'
 $(866') \times (.0155) = 13.4 \text{ bbls}$
- ④ Protect Parachute (3170-2960)
 $210' \times .0873 = \frac{18.33}{1.145} = \underline{16 \text{ SXS}}$
- b) 2960 → 2725
 $185' \times .0155 = 2.86 \text{ bbls}$
- ④ Protect Surface Shoe (2725-2625)
 $100' \times .0873 = \frac{8.73}{1.145} = \underline{8 \text{ SXS}}$
- c) 2625-1500 = 1125
 $1125 \times .0155 = 17.4 \text{ bbls}$
- ⑤ Protect USDW + G-R 1500 → 1270
 $230' \times .0873 = \frac{20.019}{1.145} = \underline{18 \text{ SXS}}$
- d) 1270-1100
 $170' \times .0155 = 18.1 \text{ bbls}$
- ⑥ Squeeze @ Surface + Fill to surf.
 $100' \times .2401 = \frac{24.01}{1.145} \quad 21 \times 10\% \quad \underline{23 \text{ SXS}} \text{ or until surf.}$
 $30' \times .0873 = \frac{2.619}{1.145} = \underline{3 \text{ SXS}}$
 $70' \times .0873 = \frac{6.111}{1.145} = \underline{6 \text{ SXS}}$

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		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
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.		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Gas Well		8. WELL NAME and NUMBER: MORGAN STATE 921-36C4BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		9. API NUMBER: 43047522730000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6100	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0645 FNL 2007 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 checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 10/16/2015 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <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 type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
THE PLUG AND ABANDONMENT OF THE MORGAN STATE 921-36C4BS HAS BEEN COMPLETED. SEE THE ATTACHED OPERATIONS SUMMARY REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY October 19, 2015		
NAME (PLEASE PRINT) Doreen Green	PHONE NUMBER 435 781-9758	TITLE Regulatory Analyst II
SIGNATURE N/A		DATE 10/19/2015

US ROCKIES REGION
Operation Summary Report

Well: MORGAN STATE 921-36C4BS BLUE		Spud date: 7/9/2012	
Project: UTAH-UINTAH		Site: MORGAN STATE 921-36C PAD	Rig name no.:
Event: ABANDONMENT		Start date: 10/15/2015	End date: 10/16/2015
Active datum: RKB @5,014.00usft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/36/0/0/26/PM/N/645/W/0/2007/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
10/15/2015	12:00 - 15:00	3.00	ABANDP	31	I	P		RPEP TO P/A WELL. P/U & RIH W/ HAL 4-1/2" CICR + 130JTS 2-3/8" P-110 TBNG. SET CICR @ 4136'. PRESSURE TEST TBNG & CICR VALVE GOOD @ 1000# W/ 3BBLS TMAC. STING OUT OF CICR. STING BACK INTO CICR & EST INJECTION RATE OF 1BPM @ 1850#. BLEED OFF PRESSURE. STING OUT OF CICR. BREAK CONV CIRC & CIRC WELLBORE CLEAN W/ 70BBLS TMAC. PRESSURE TEST CSNG & CICR GOOD @ 1000#. LOST 0# IN 15MIN. BLEED OFF PRESSURE. STING INTO CICR. SWIFN. PREP FOR CMT IN THE AM. SDFN. LOCK RAMS. SAFETY =JSA.
10/16/2015	7:00 - 7:15	0.25	ABANDP	48		P		
	7:15 - 10:00	2.75	ABANDP	51	D	P		0# ON WELL. MIRU CMT CREW. R/U TO TBNG. TBNG STUNG INTO 4-1/2" CICR @ 4136'. EST INJ RATE W/ FRESH H2O. PUMP 7BBLS TOTAL, 1BPM @ 1650#. PUMP CMT PLUGS AS FOLLOWS: #1 @ 4136'. PUMP 50SX 15.8# NEAT G CMT BELOW CICR. DISPLACE W/ 14BBLS TMAC. FINAL PRESSURE 1250#. STING OUT OF CICR. SPOT 8SX 15.8# NEAT G CMT ON TOP OF CICR. LET PLUG BALANCE OUT. PUH TBNG. #2 @ 3170'. PUMP 2BBL FRESH WATER LEAD. PUMP 16SX 15.8# NEAT G CMT BALANCED PLUG. DISPLACE W/ 11.4 BBLS TMAC. SHUT DOWN. PUH TBNG. #3 @ 2725'. PUMP 2BBL FRESH WATER LEAD. PUMP 12SX 15.8# NEAT G CMT BALANCED PLUG. DISPLACE W/ 10BBLS TMAC. SHUT DOWN. PUH TBNG. #4 @ 1500'. PUMP 2BBL FRESH WATER LEAD. PUMP 18SX 15.8# NEAT G CMT BALANCED PLUG. DISPLACE W/ 4.8BBLS TMAC. SHUT DOWN. POOH ALL TBNG.
	10:00 - 10:40	0.67	ABANDP	34	H	P		MIRU WIRELINE. P/U & RIH W/ 3-1/8" 4HOLE, 4SPF SQUEEZE. GUN. PERF 4-1/2" PRODUCTION CSNG @ 100'. POOH. RDMO WIRELINE.
	10:40 - 12:00	1.33	ABANDP	51	D	P		R/D FLOOR & TBNG EQUIP. NDBOP. INSTALL TBNG HANGER & TIW VALVE. R/U CMT SERVICE. PUMP 5BBLS FRESH WATER DOWN 4-1/2" PRODUCTION CSNG W/ FULL RETURNS UP 8-5/8" CSNG. MIX & PUMP 80SX 15.8# NEAT G CMT. FULL RETURNS @ SURFACE & STANDING FULL. SHUT DOWN. CLEAN UP CMT LINES.

US ROCKIES REGION

Operation Summary Report

Well: MORGAN STATE 921-36C4BS BLUE

Spud date: 7/9/2012

Project: UTAH-UINTAH

Site: MORGAN STATE 921-36C PAD

Rig name no.:

Event: ABANDONMENT

Start date: 10/15/2015

End date: 10/16/2015

Active datum: RKB @5,014.00usft (above Mean Sea Level)

UWI: NE/NW/0/9/S/21/E/36/0/0/26/PM/N/645/W/0/2007/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	12:00 - 13:30	1.50	ABANDP	53	A	P		<p>MIRU ROUSTABOUT CREW. EXPOSE WELLHEAD & SURFACE CSNG W/ BACKHOE. CUT & LOWER WELLHEAD +/- 4' BELOW GRADE. CMT STANDING FULL. INSTALL MARKER PLATE. BACKFILL WELLHEAD. P/A COMPLETE.</p> <p>WELLHEAD COORDINATES: LAT:39.998004 LONG:-109.501634</p> <p>NOTE: P/A WITNESSED BY DOGM REP (RICHARD POWELL).</p>