

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 921-36D1CS				
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		637 FNL 1989 FWL		NENW	36	9.0 S	21.0 E	S		
Top of Uppermost Producing Zone		504 FNL 828 FWL		NWNW	36	9.0 S	21.0 E	S		
At Total Depth		504 FNL 828 FWL		NWNW	36	9.0 S	21.0 E	S		
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 504			23. NUMBER OF ACRES IN DRILLING UNIT 639				
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 396			26. PROPOSED DEPTH MD: 10817 TVD: 10632				
27. ELEVATION - GROUND LEVEL 4989			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 - 2640	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 - 10817	11.6	HCP-110 LT&C	13.0	Premium Lite High Strength	320	3.38	12.0
							50/50 Poz	1570	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 43047522750000			APPROVAL  Permit Manager							

Kerr-McGee Oil & Gas Onshore. L.P.**MORGAN STATE 921-36D1CS**

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

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	1,680'	Water
Mahogany	2,190'	Water
Wasatch	4,647'	Gas
Mesaverde	7,343'	Gas
Sego	9,551'	Gas
Castlegate	9,599'	Gas
MN5	10,032'	Gas
TVD =	10,632'	
TD =	10,817'	

- 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 Sego 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 10632' TVD, approximately equals
7,017 psi (0.66 psi/ft = actual bottomhole gradient)

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

Maximum anticipated surface pressure equals approximately 4,727 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 9551' TVD, approximately equals
6,113 psi (0.64 psi/ft = actual bottomhole gradient)

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

Maximum anticipated surface pressure equals approximately 3,998 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.

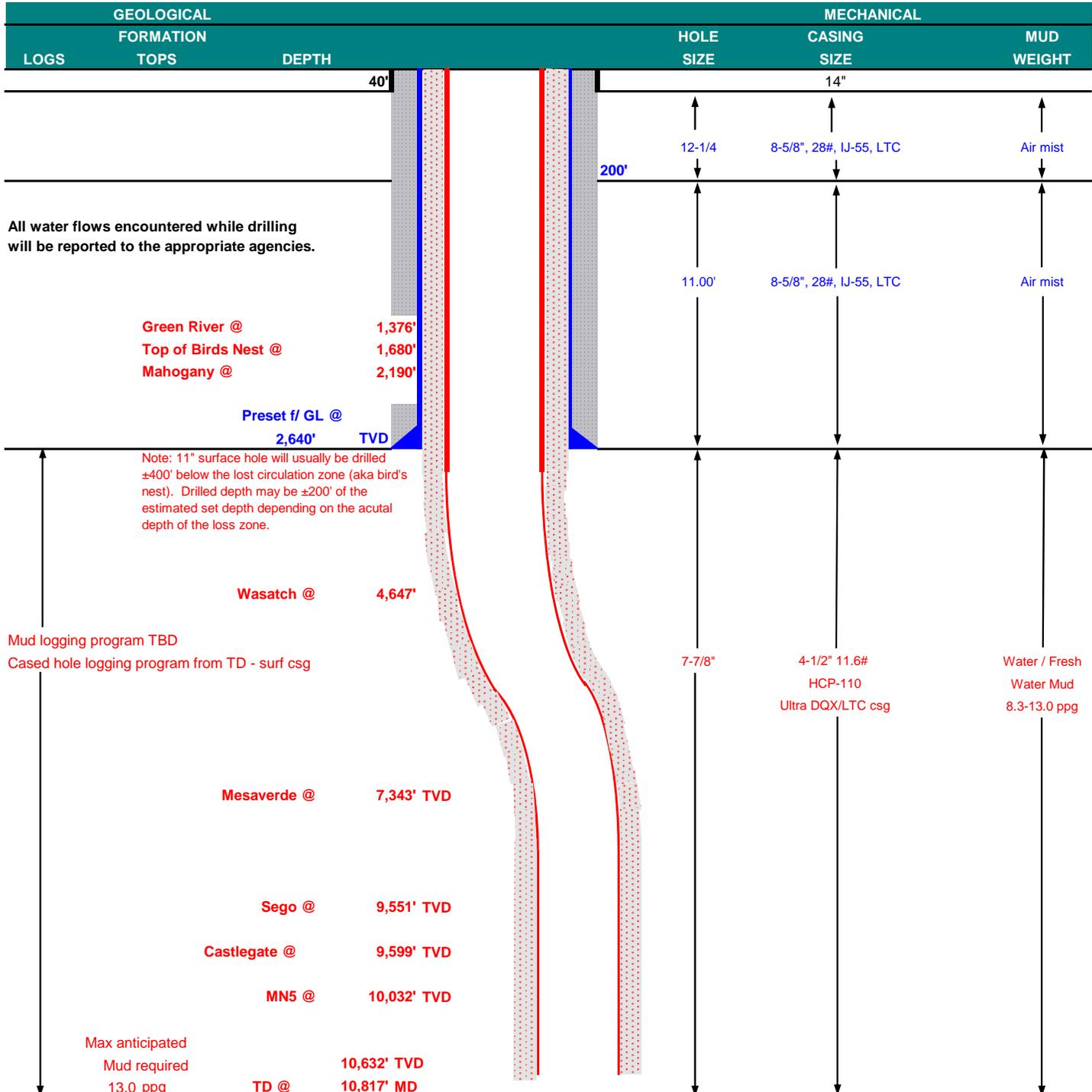
10. **Other Information:**

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 921-36D1CS		TD	10,632' TVD	10,817' MD		
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION	4,988'
SURFACE LOCATION	NENW	637 FNL	1989 FWL	Sec 36	T 9S	R 21E	
	Latitude:	39.998027	Longitude:	-109.501699		NAD 27	
BTM HOLE LOCATION	NWNW	504 FNL	828 FWL	Sec 36	T 9S	R 21E	
	Latitude:	39.998394	Longitude:	-109.505843		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 2,640	28.00	IJ-55	LTC	2.04	1.52	5.38	N/A
PRODUCTION	4-1/2"	0	to 5,000	11.60	HCP-110	DQX	1.19	1.20	279,000	367,174
	4-1/2"	5,000	to 10,817'	11.60	HCP-110	LTC	1.19	1.20	5.16	

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	2,140'	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	4,147'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	320	35%	12.00	3.38
	TAIL	6,670'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,570	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:

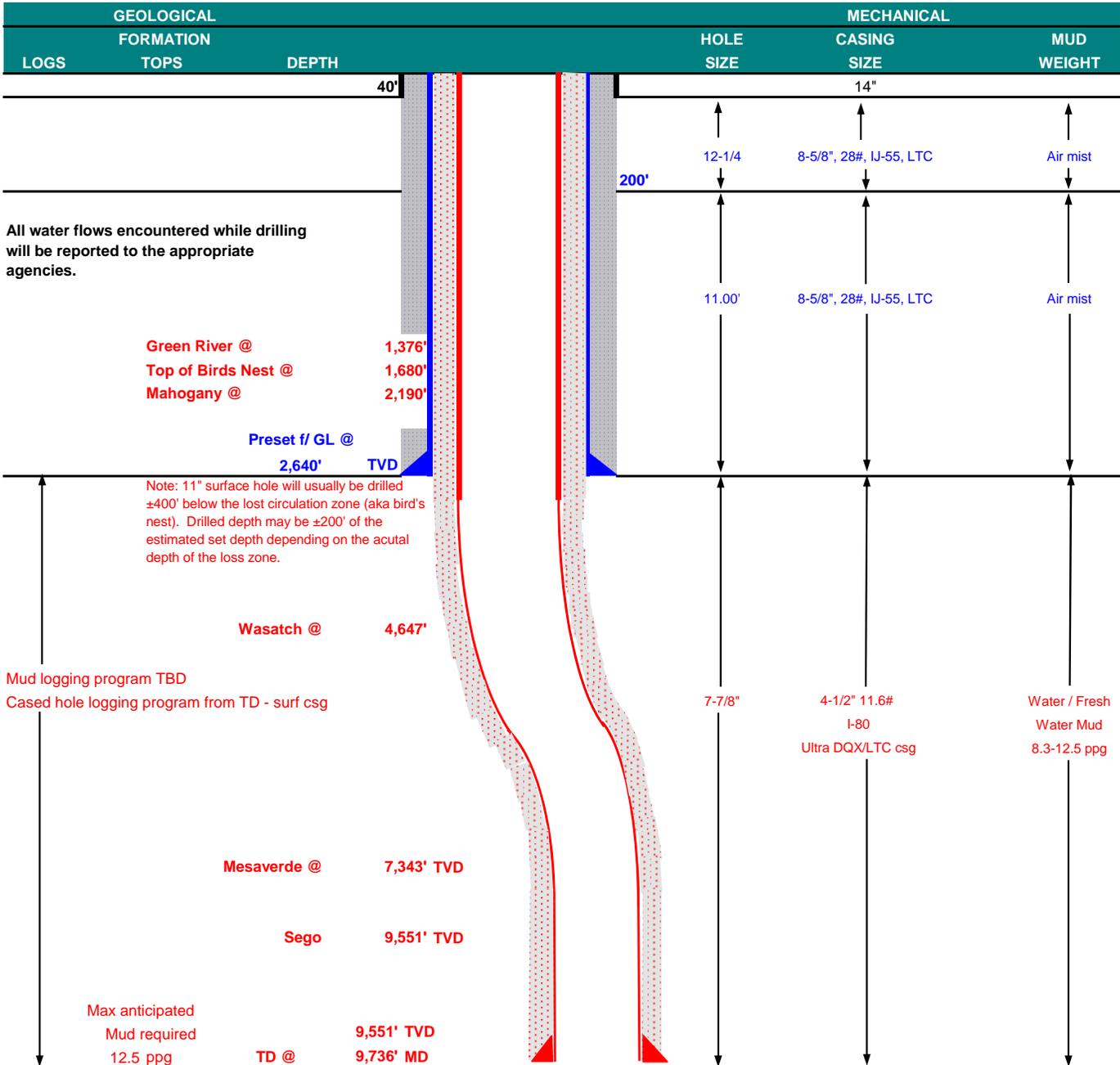
Kenny Gathings / Lovel Young

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 921-36D1CS		TD	9,551'	TVD 9,736' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah
SURFACE LOCATION	NENW	637 FNL	1989 FWL	Sec 36 T 9S R 21E	FINISHED ELEVATION 4,988'
	Latitude: 39.998027		Longitude: -109.501699		NAD 27
BTM HOLE LOCATION	NWNW	504 FNL	828 FWL	Sec 36 T 9S R 21E	
	Latitude: 39.998394		Longitude: -109.505843		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 2,640	28.00	IJ-55	LTC	2.04	1.52	5.38	N/A	
						7,780	6,350		267,035	
PRODUCTION	4-1/2"	0 to 5,000	11.60	I-80	DQX	1.11	1.02		2.92	
						7,780	6,350	223,000		
	4-1/2"	5,000 to 9,736'	11.60	I-80	LTC	1.11	1.02	5.02		

Surface Casing:

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

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

(Collapse Assumption: Fully Evacuated Casing, Max MW)

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

Production casing:

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

(Collapse Assumption: Fully Evacuated Casing, Max MW)

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

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80	1.15
Option 1	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80	1.15
SURFACE		NOTE: If well will circulate water to surface, option 2 will be utilized					
Option 2	LEAD	2,140'	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	4,146'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	320	35%	12.00	3.38
	TAIL	5,590'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,320	35%	14.30	1.31

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

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

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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.

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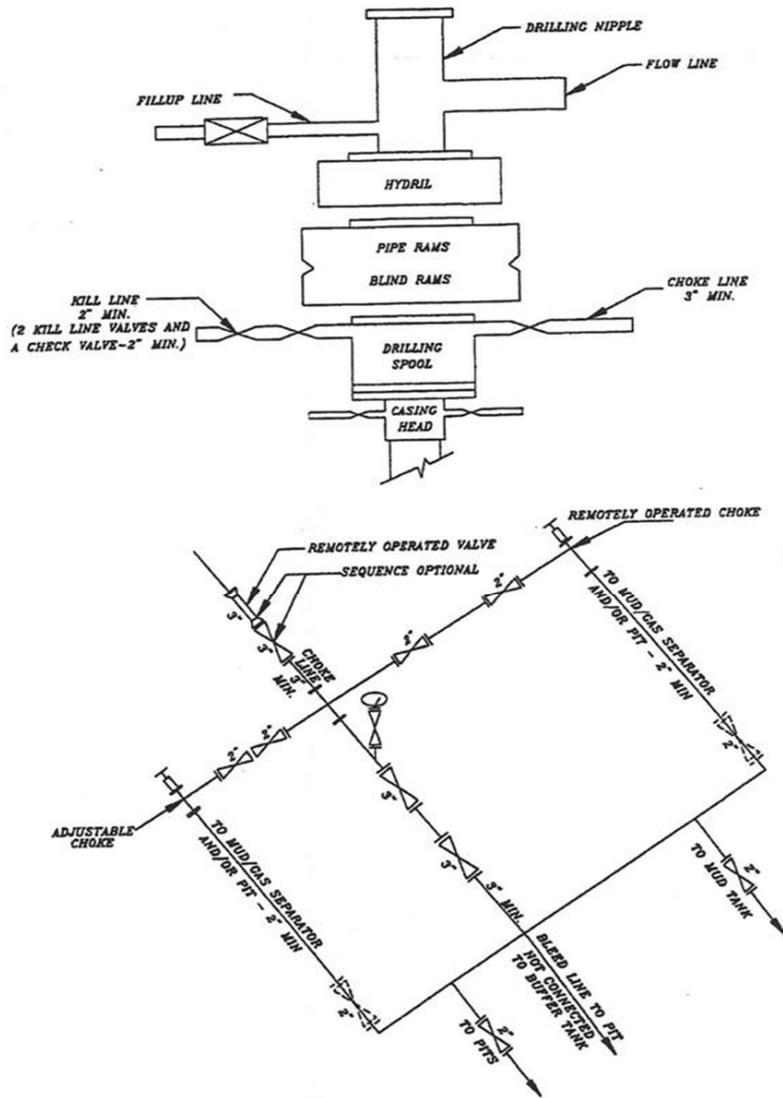
DRILLING ENGINEER: _____
Nick Spence / Danny Showers / Chad Loesel

DATE: _____

DRILLING SUPERINTENDENT: _____
Kenny Gathings / Lovel Young

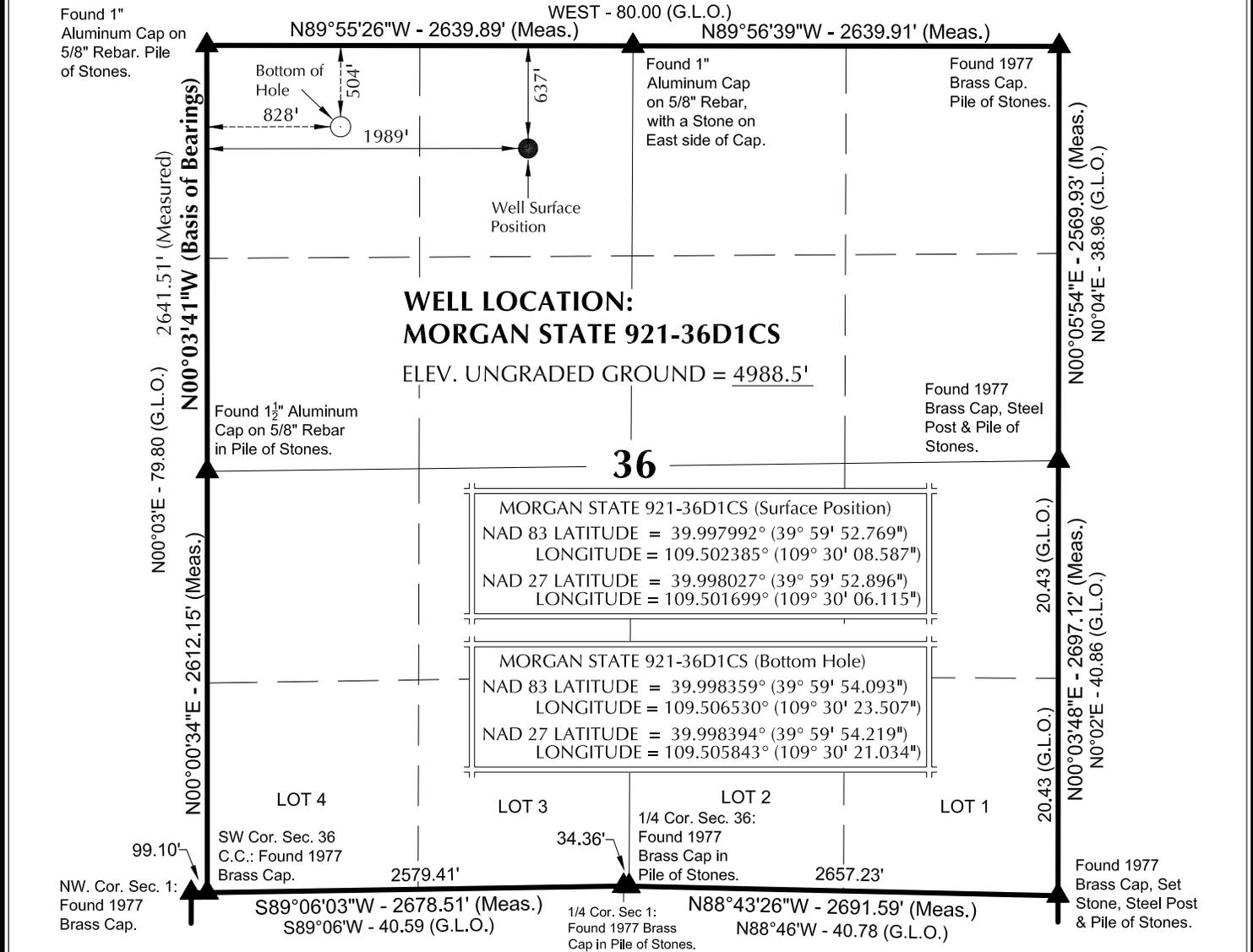
DATE: _____

EXHIBIT A
MORGAN STATE 921-36D1CS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

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



**WELL LOCATION:
MORGAN STATE 921-36D1CS**

ELEV. UNGRADED GROUND = 4988.5'

<p>MORGAN STATE 921-36D1CS (Surface Position)</p> <p>NAD 83 LATITUDE = 39.997992° (39° 59' 52.769")</p> <p>LONGITUDE = 109.502385° (109° 30' 08.587")</p> <p>NAD 27 LATITUDE = 39.998027° (39° 59' 52.896")</p> <p>LONGITUDE = 109.501699° (109° 30' 06.115")</p>
<p>MORGAN STATE 921-36D1CS (Bottom Hole)</p> <p>NAD 83 LATITUDE = 39.998359° (39° 59' 54.093")</p> <p>LONGITUDE = 109.506530° (109° 30' 23.507")</p> <p>NAD 27 LATITUDE = 39.998394° (39° 59' 54.219")</p> <p>LONGITUDE = 109.505843° (109° 30' 21.034")</p>

NOTES:

- ▲ = Section Corners Located
- 1. Well footages are measured at right angles to the Section Lines.
- 2. G.L.O. distances are shown in feet or chains. 1 chain = 66 feet.
- 3. The Bottom of hole bears N83°23'33"W 1169.12' from the Surface Position.
- 4. Bearings are based on Global Positioning Satellite observations.
- 5. Basis of elevation is Tri-Sta "Two Water" located in the NW ¼ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.



SURVEYOR'S CERTIFICATE

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

11-11-11
 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 921-36D1CS
 WELL PLAT**
 504' FNL, 828' FWL (Bottom Hole)
 NW ¼ NW ¼ OF SECTION 36, T9S, R21E,
 S.L.B.&M., UTAH COUNTY, UTAH.

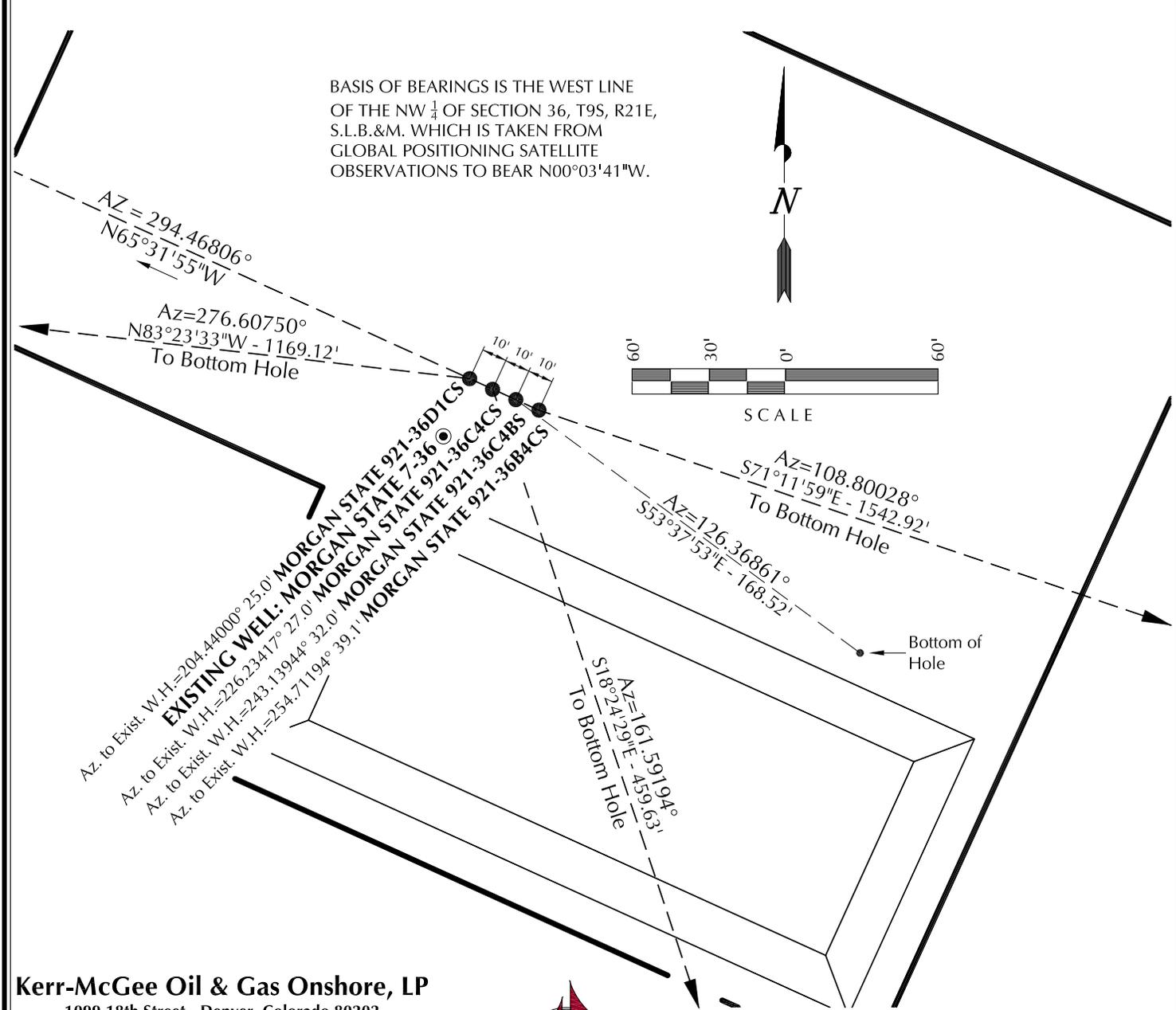
CONSULTING, LLC
 2155 North Main Street
 Sheridan WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

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: 4
DATE DRAWN: 11-02-11	DRAWN BY: T.J.R.	
SCALE: 1" = 1000'		4 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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WELL PAD - MORGAN STATE 921-36C

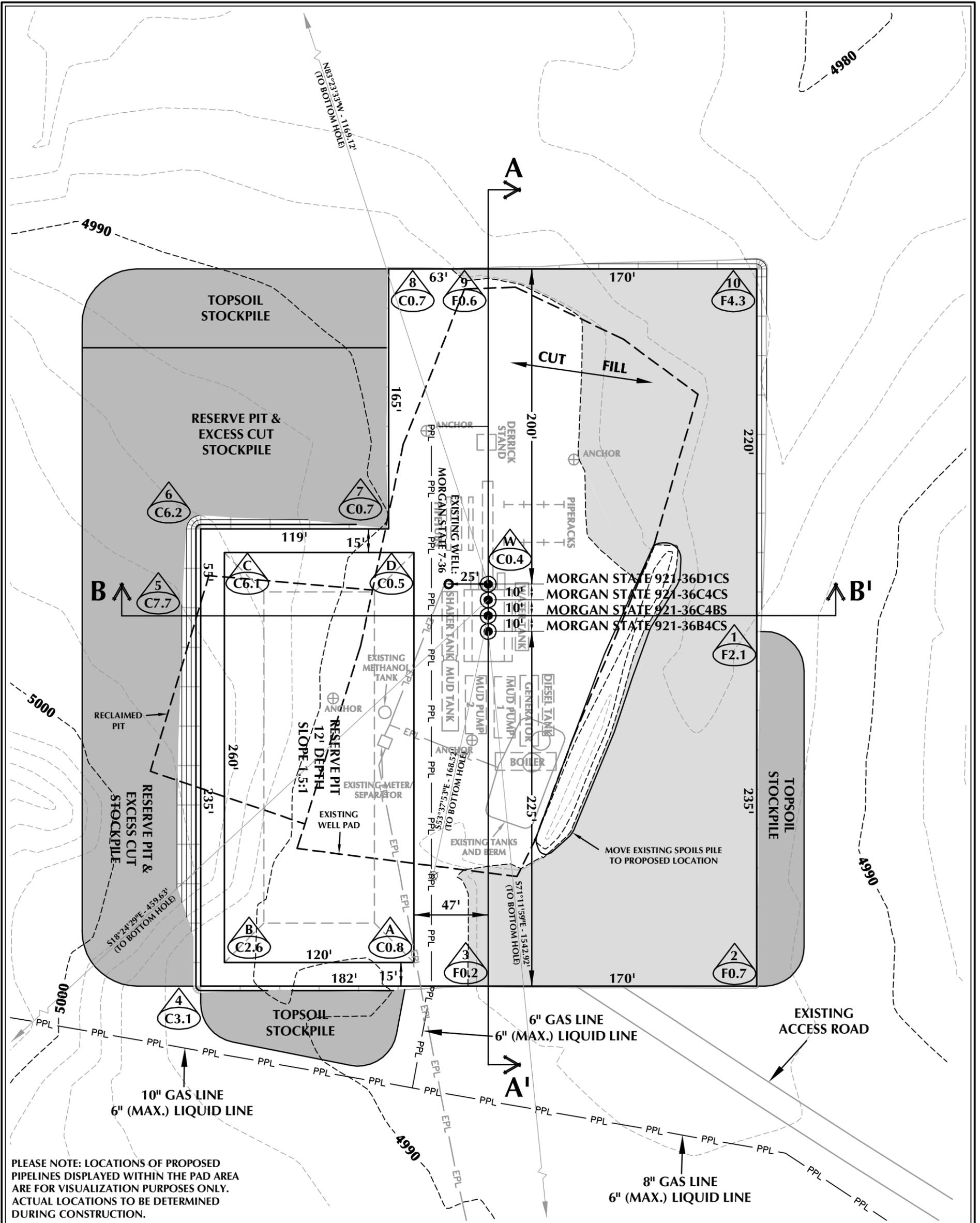
WELL PAD INTERFERENCE PLAT
WELLS - MORGAN STATE 921-36B4CS,
MORGAN STATE 921-36C4BS,
MORGAN STATE 921-36C4CS &
MORGAN STATE 921-36D1CS
LOCATED IN SECTION 36, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH.



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



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

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

WELL PAD LEGEND

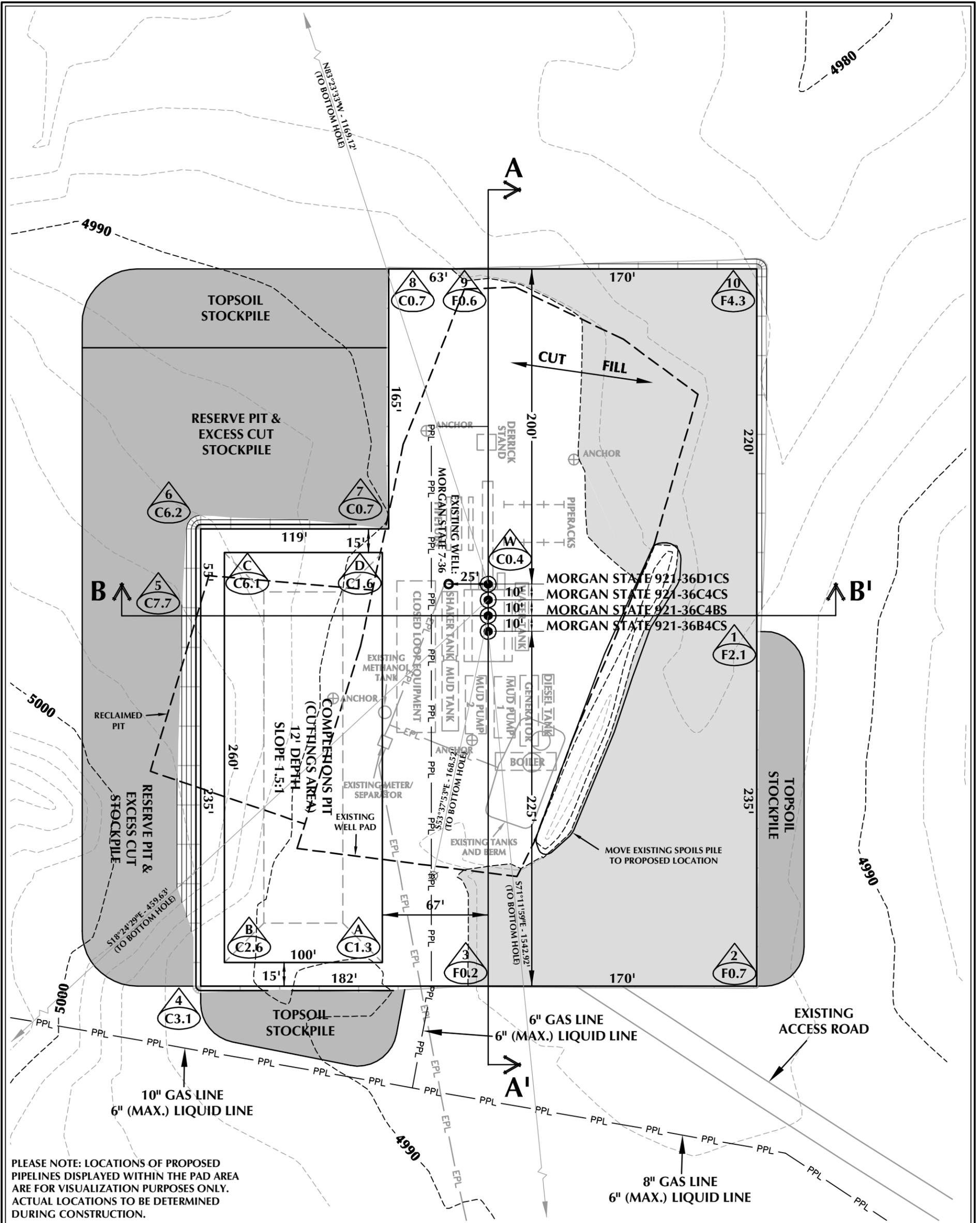
- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL - PROPOSED PIPELINE
- EPL - EXISTING PIPELINE



HORIZONTAL 0 30' 60' 1" = 60'
 2' CONTOURS

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

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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

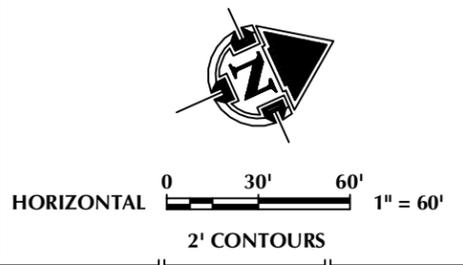


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 Phone 307-674-0609
 Fax 307-674-0182

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.

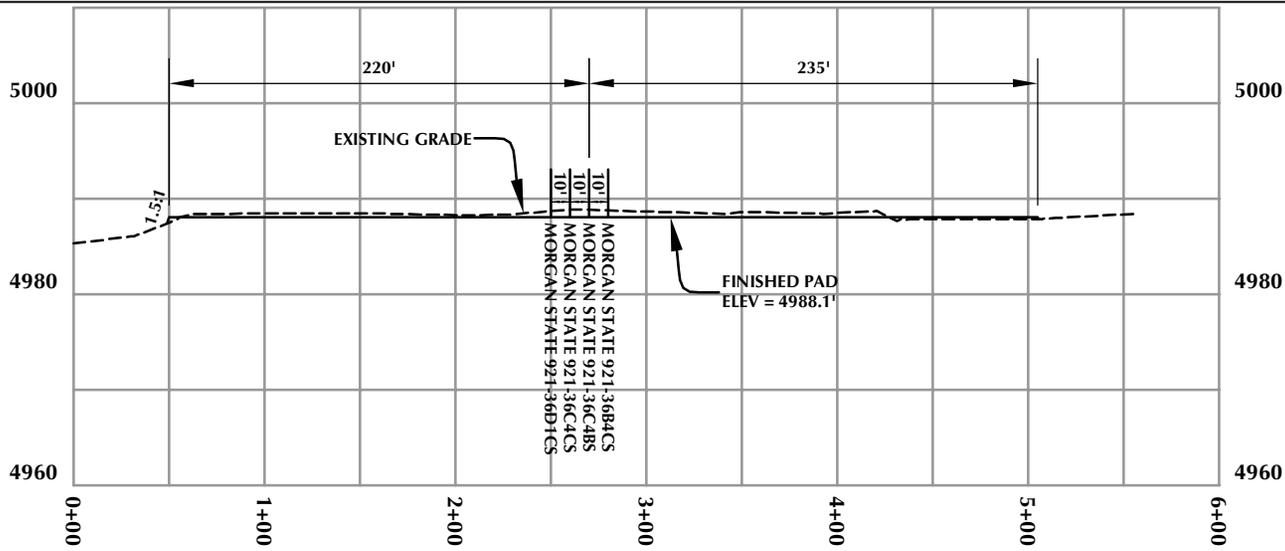
COMPLETIONS PIT QUANTITIES
 TOTAL CUT FOR COMPLETIONS PIT
 +/- 8,870 C.Y.
 COMPLETIONS PIT CAPACITY
 (2' OF FREEBOARD)
 +/- 33,770 BARRELS

- 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

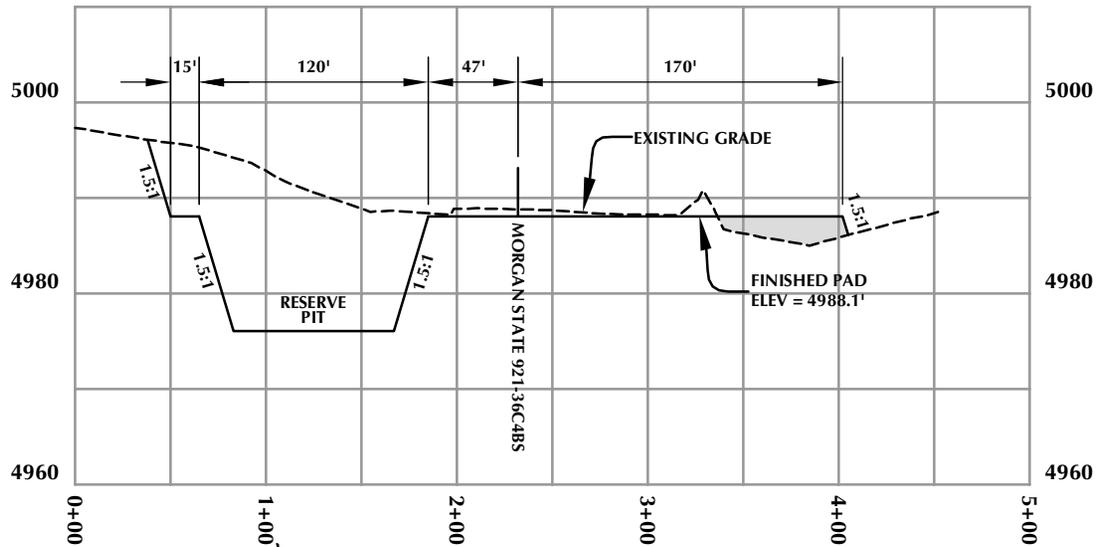


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SCALE: 1"=60' DATE: 11/15/11 SHEET NO:
 REVISED: **6B** 6B OF 16



CROSS SECTION A-A'



CROSS SECTION B-B'

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WELL PAD - MORGAN STATE 921-36C

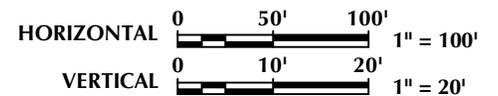
WELL PAD - CROSS SECTIONS
MORGAN STATE 921-36B4CS,
MORGAN STATE 921-36C4BS,
MORGAN STATE 921-36C4CS &
MORGAN STATE 921-36D1CS
LOCATED IN SECTION 36, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH



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209 NORTH 300 WEST - VERNAL, UTAH 84078

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Scale: 1"=100'

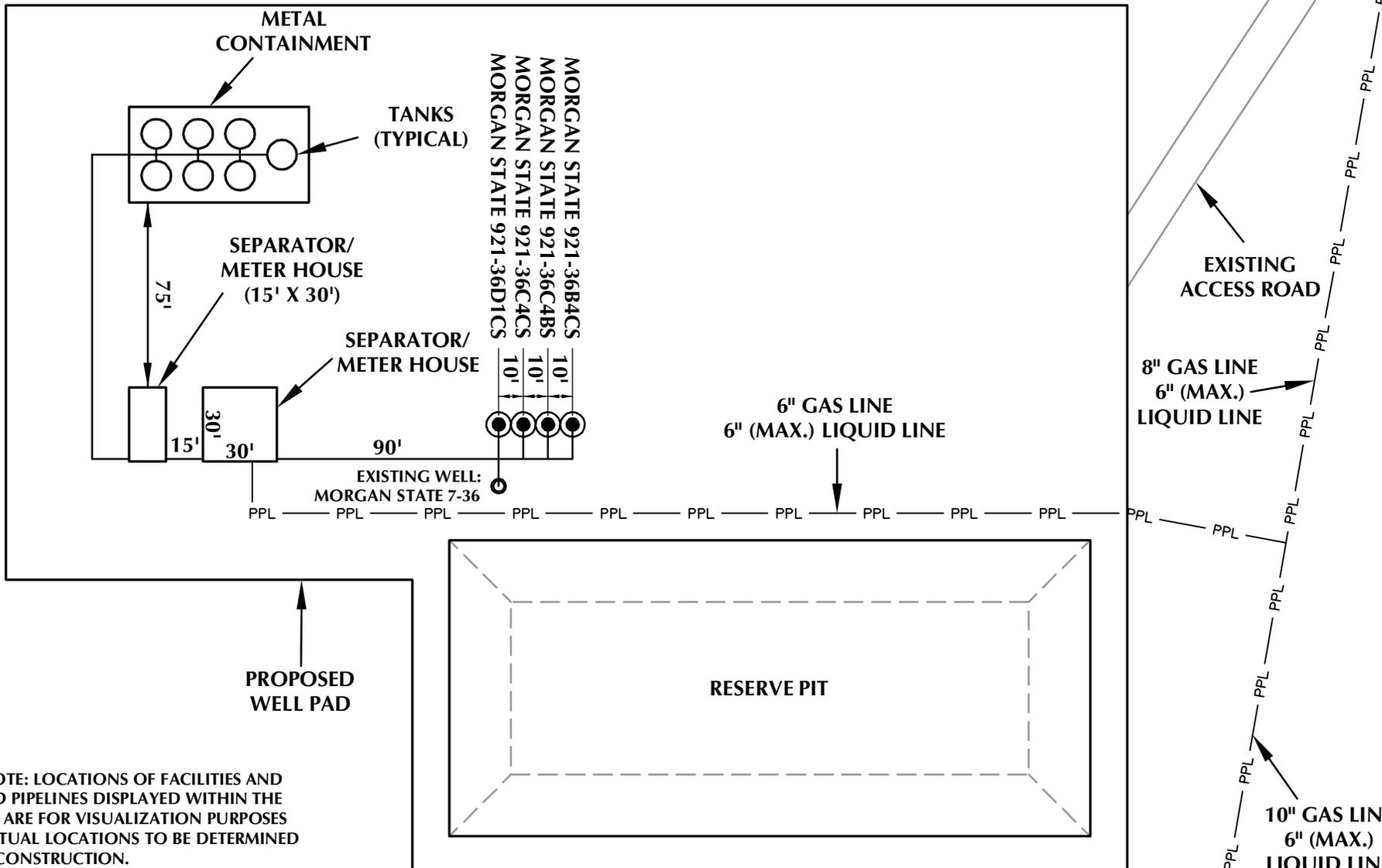
Date: 11/11/11

SHEET NO:

REVISED:

7

7 OF 16



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

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WELL PAD - MORGAN STATE 921-36C

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



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WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- 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

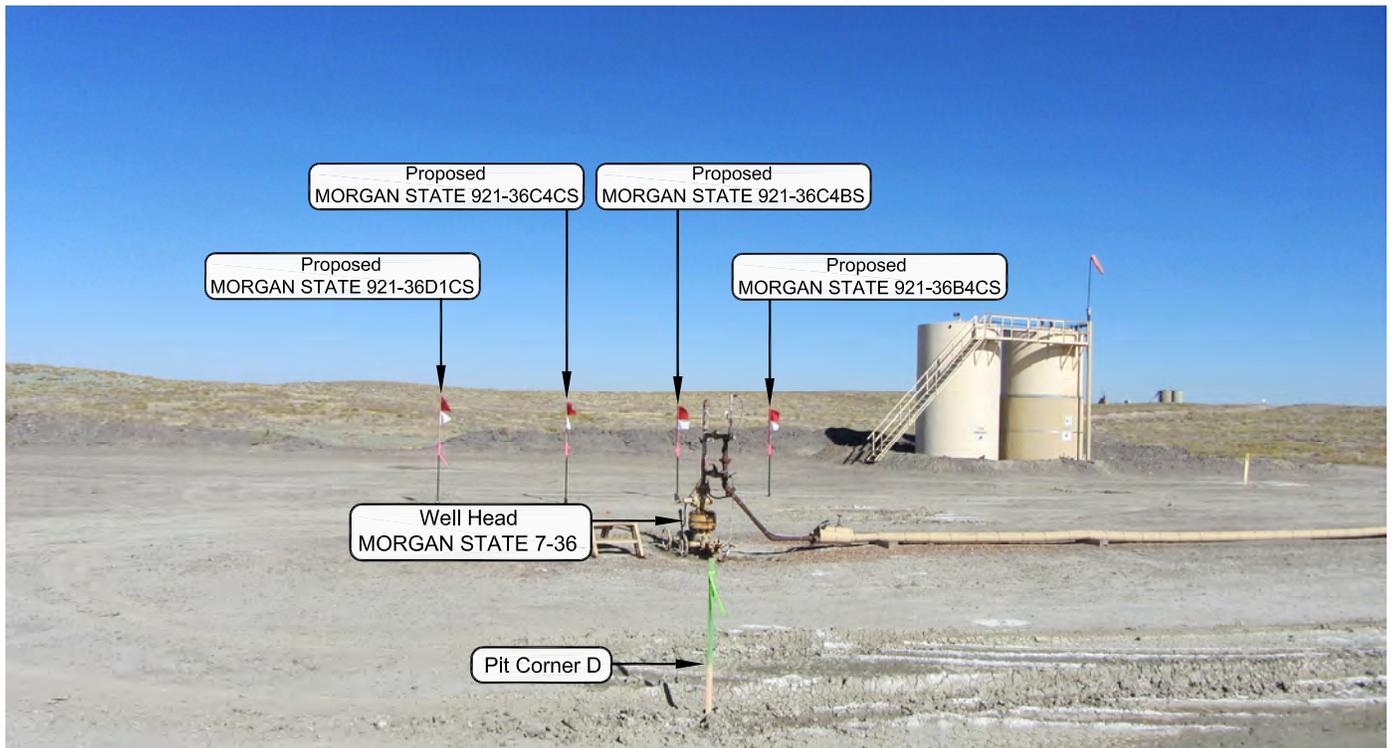


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO VIEW: FROM EXISTING ACCESS ROAD

CAMERA ANGLE: SOUTHWESTERLY

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WELL PAD - MORGAN STATE 921-36C

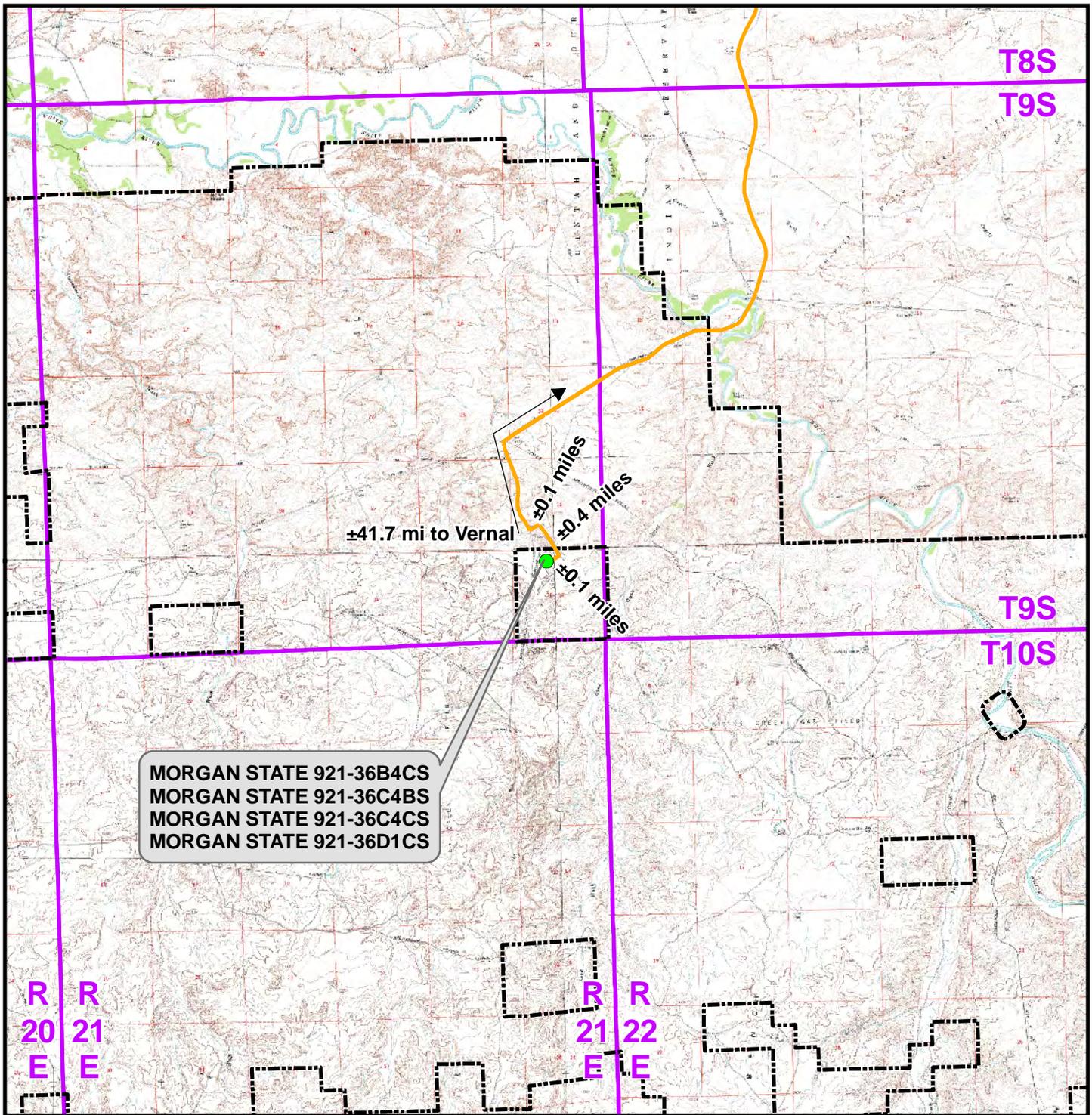
LOCATION PHOTOS
 MORGAN STATE 921-36B4CS,
 MORGAN STATE 921-36C4BS,
 MORGAN STATE 921-36C4CS &
 MORGAN STATE 921-36D1CS
 LOCATED IN SECTION 36, T9S, R21E,
 S.L.B.&M., Uintah County, Utah.



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TIMBERLINE (435) 789-1365
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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 &
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 Denver, Colorado 80202



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SCALE: 1:100,000

NAD83 USP Central

SHEET NO:

DRAWN: TL

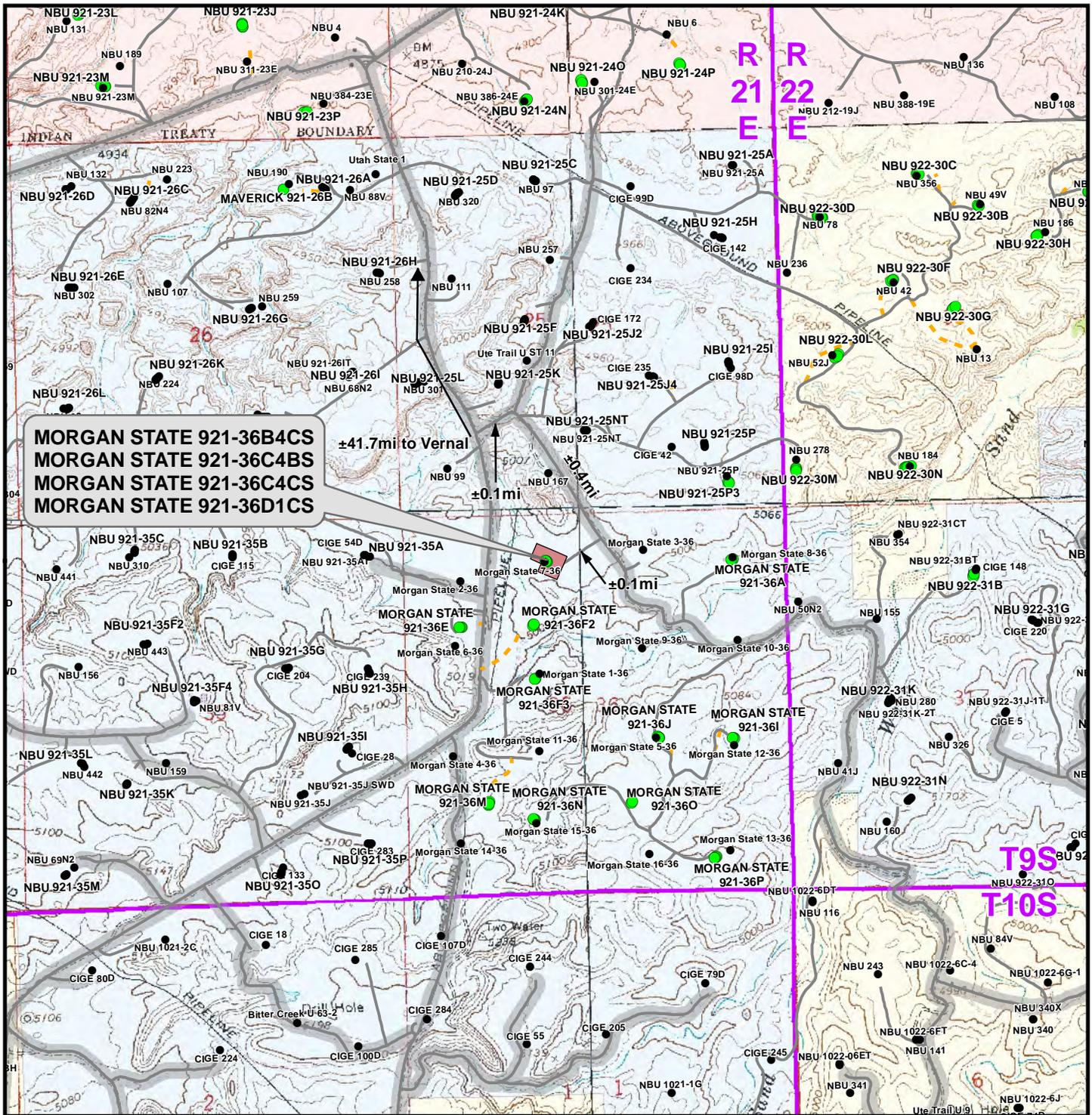
DATE: 11 Nov 2011

10

REVISED:

DATE:

10 OF 16



Legend

- Well - Proposed
- Well - Existing
- Well Pad
- - - Road - Proposed
- - - Road - Existing
- ▬ County Road
- Bureau of Land Management
- Indian Reservation
- State
- 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.**

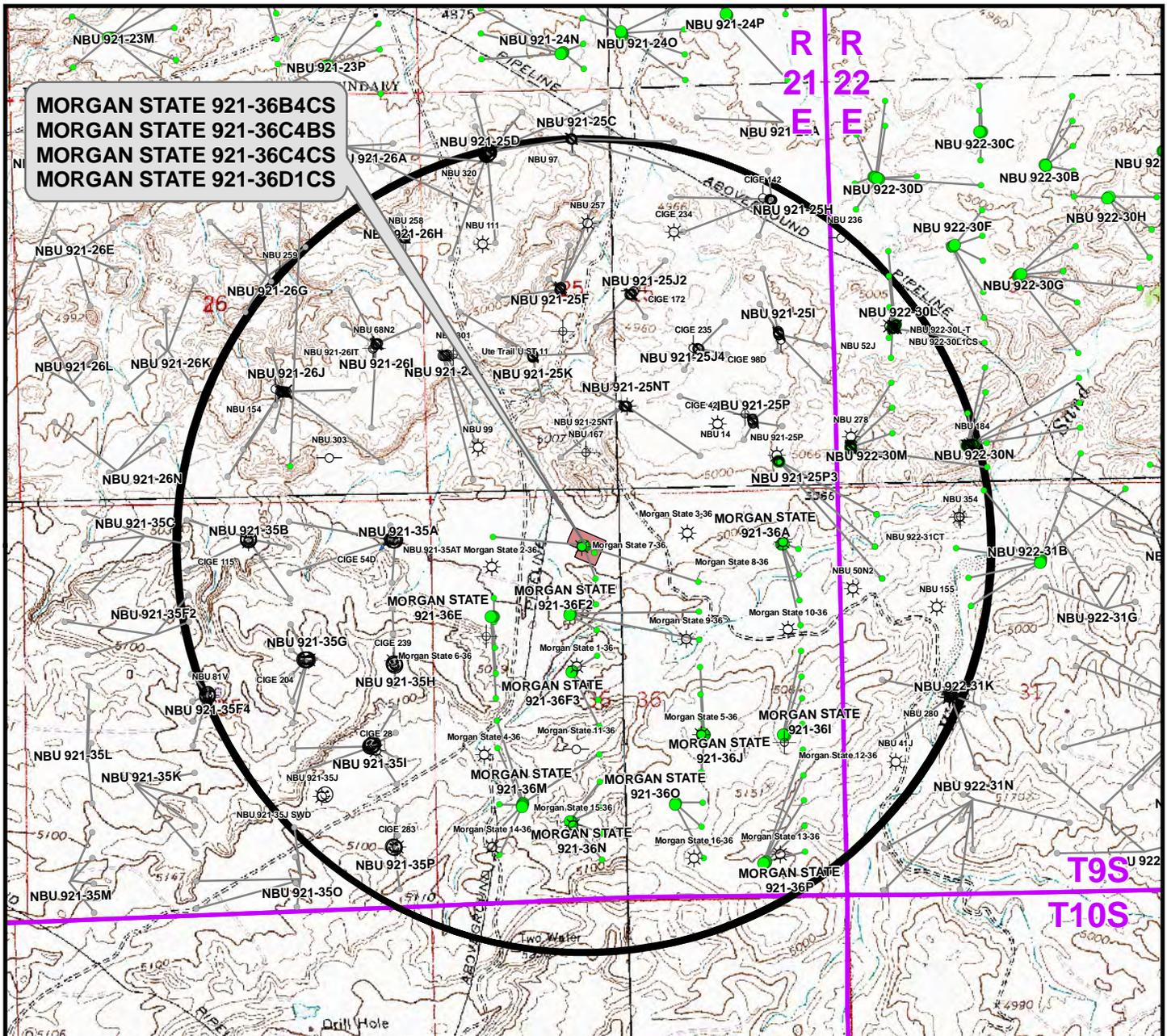
1099 18th Street
 Denver, Colorado 80202

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 Sheridan, Wyoming 82801
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 Fax 307-674-0182

N

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

11 OF 16



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

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

Legend

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

WELL PAD - MORGAN STATE 921-36C

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

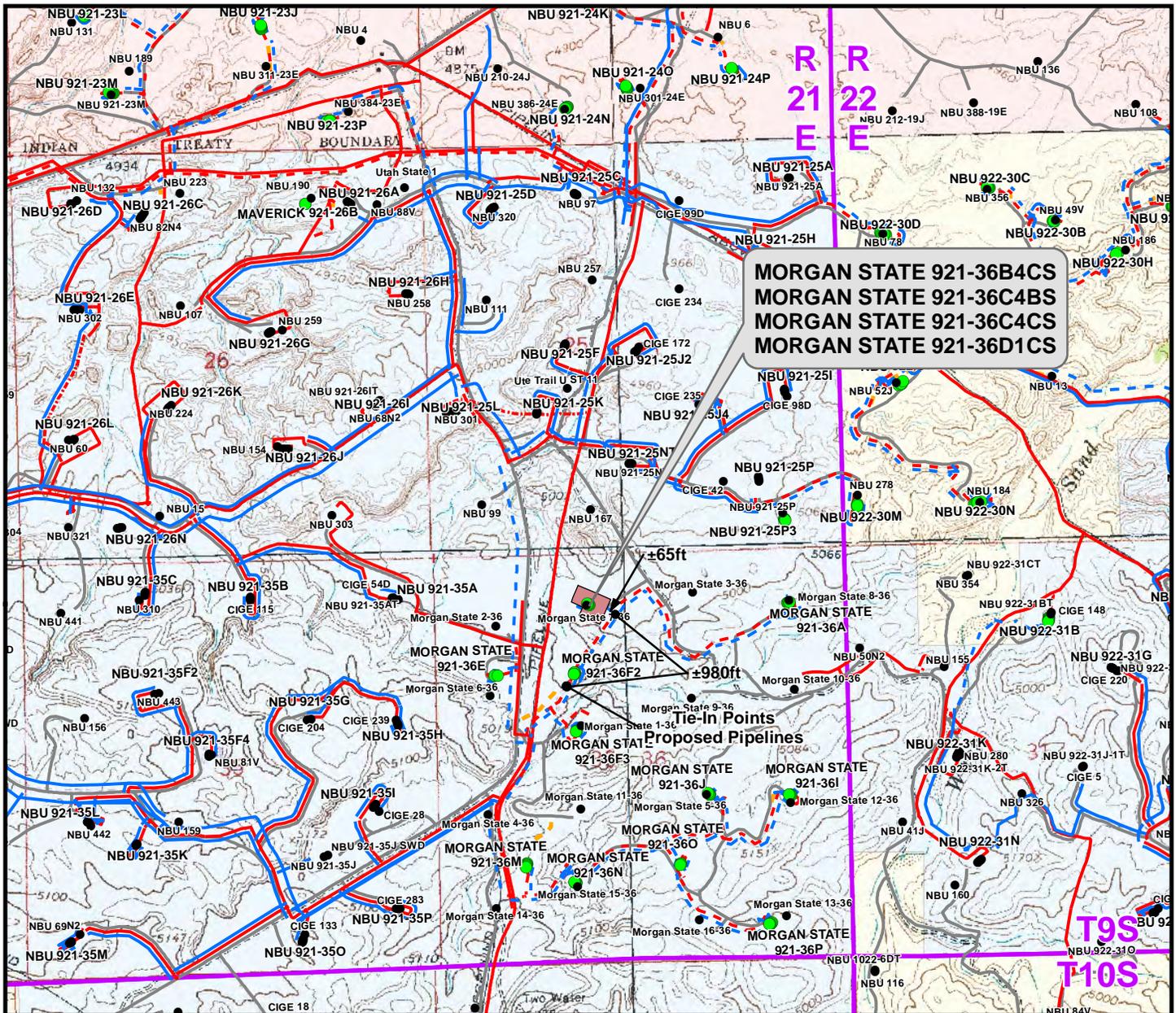
**Kerr-McGee Oil &
 Gas Onshore L.P.**
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 Denver, Colorado 80202



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

SHEET NO:
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**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.**

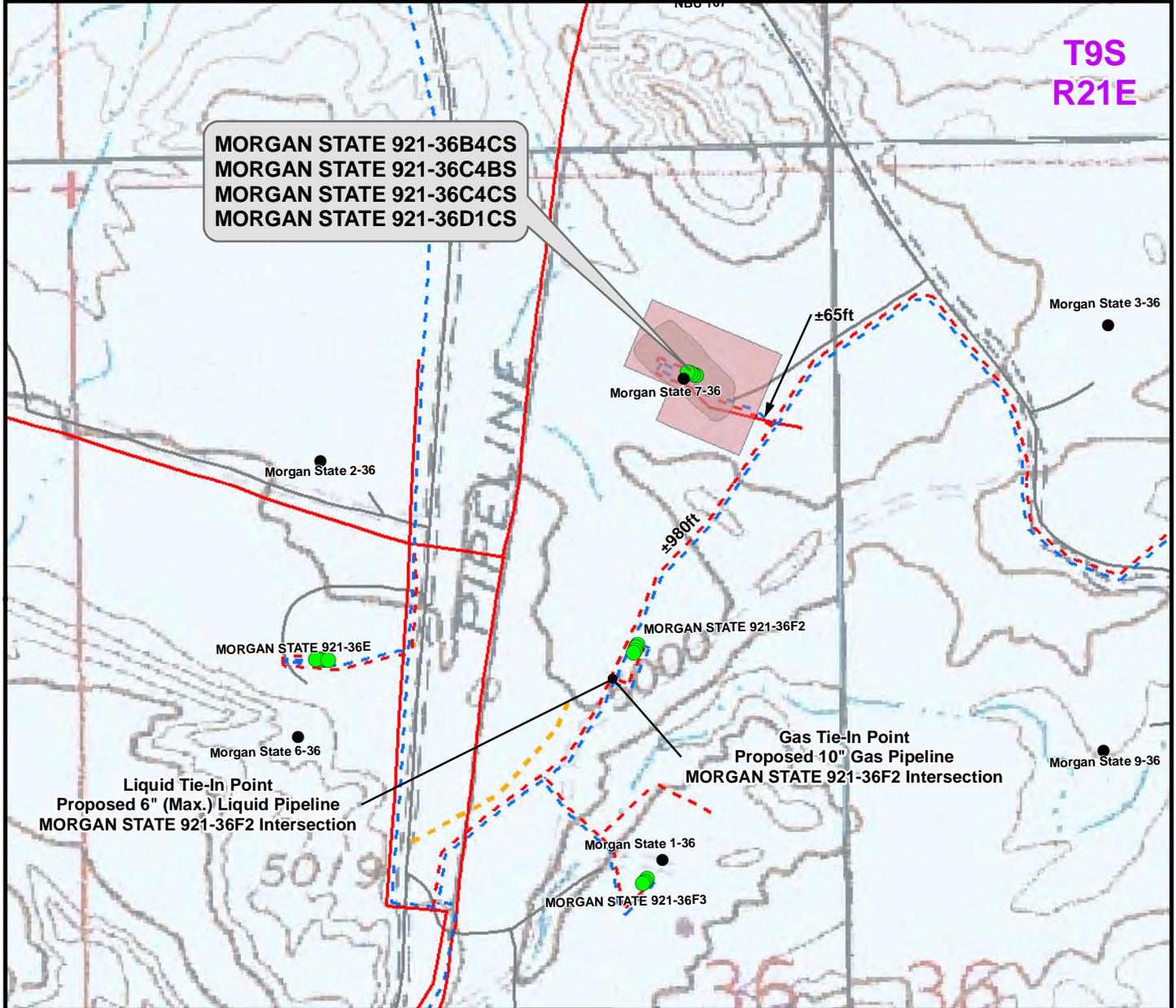
1099 18th Street
Denver, Colorado 80202

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Sheridan, Wyoming 82801
Phone 307-674-0609
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



Liquid Tie-In Point
Proposed 6" (Max.) Liquid Pipeline
MORGAN STATE 921-36F2 Intersection

Gas Tie-In Point
Proposed 10" Gas Pipeline
MORGAN STATE 921-36F2 Intersection

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	 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.**

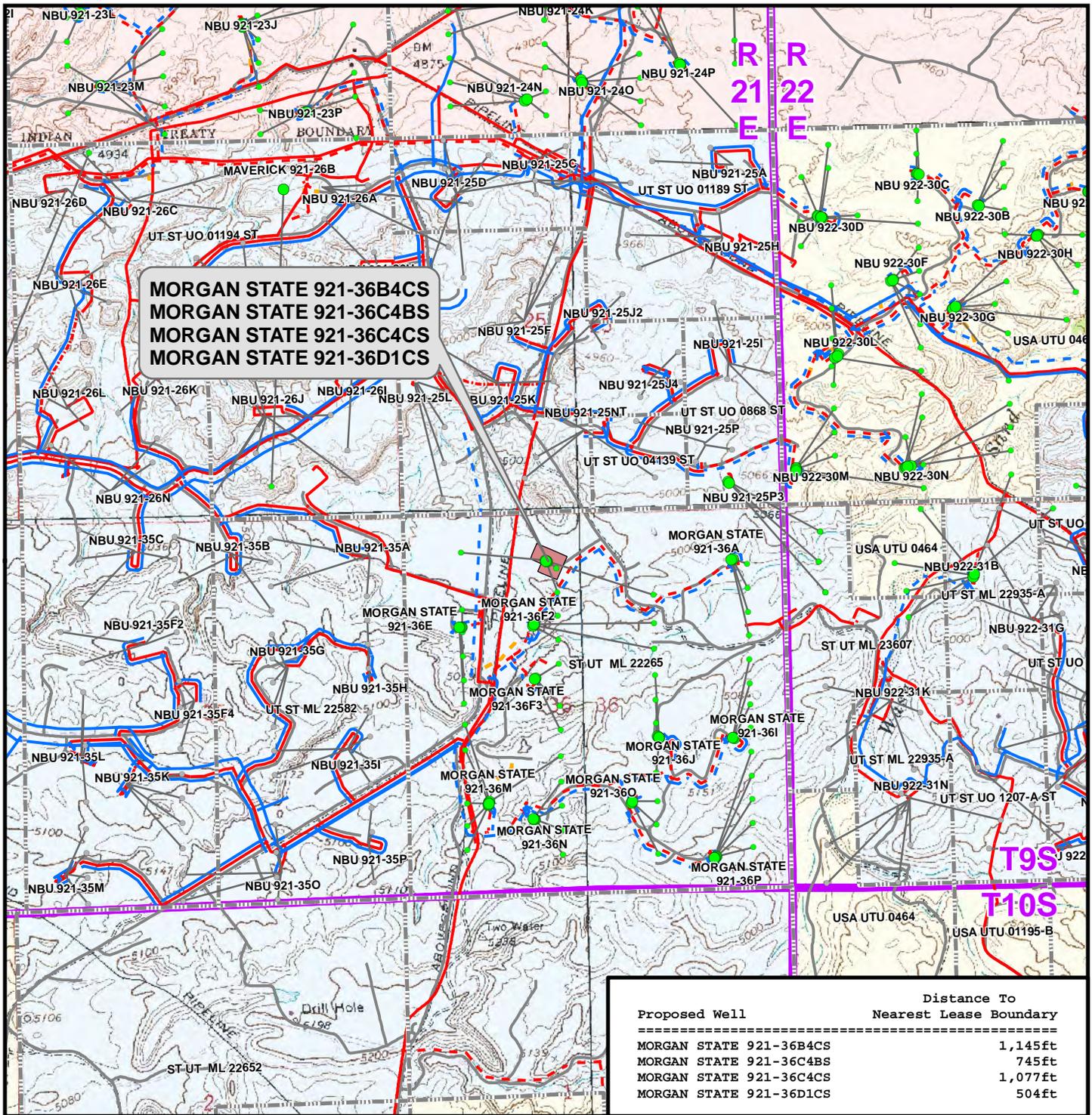
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Denver, Colorado 80202

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2155 North Main Street
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SCALE: 1" = 500ft	NAD83 USP Central	14
DRAWN: TL	DATE: 11 Nov 2011	
REVISED:	DATE:	

SHEET NO:
14 OF 16



Legend

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

WELL PAD - MORGAN STATE 921-36C

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

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

1099 18th Street
 Denver, Colorado 80202



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

SCALE: 1" = 2,000ft

DRAWN: TL

REVISED:

NAD83 USP Central

DATE: 11 Nov 2011

DATE:

SHEET NO:

15

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.

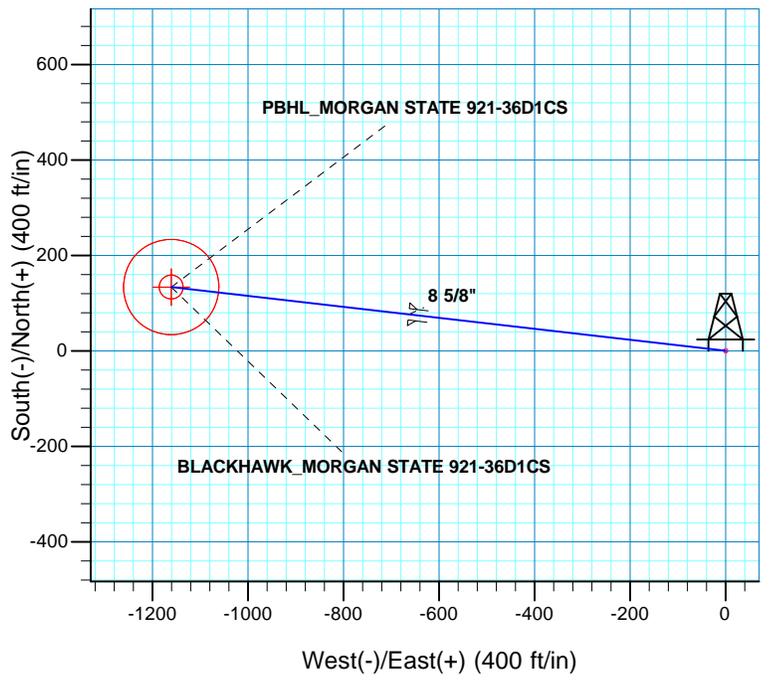
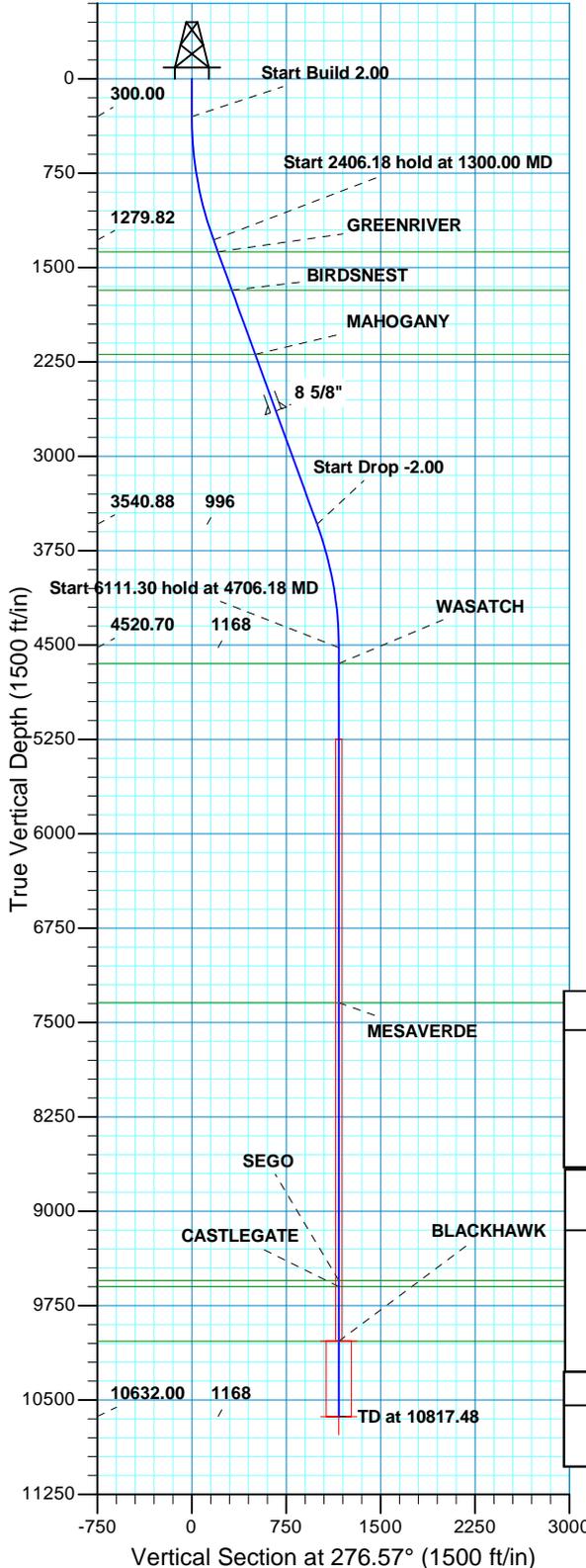
From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles 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.

Azimuths to True North
 Magnetic North: 11.02°

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

WELL DETAILS: MORGAN STATE 921-36D1CS						
GL 4988 & KB 4 @ 4992.00ft (ASSUMED)						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	14528853.05	2060048.80	39° 59' 52.897 N	109° 30' 6.116 W	
DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude Longitude Shape
BLACKHAWK	10032.00	133.69	-1160.82	14528967.21	2058885.89	39° 59' 54.218 N 109° 30' 21.035 W Circle (Radius: 25.00)
- plan hits target center						
PBHL	10632.00	133.69	-1160.82	14528967.21	2058885.89	39° 59' 54.218 N 109° 30' 21.035 W Circle (Radius: 100.00)
- plan hits target center						



SECTION DETAILS										
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00		
1300.00	20.00	276.57	1279.82	19.77	-171.63	2.00	276.57	172.77		
3706.18	20.00	276.57	3540.88	113.93	-989.19	0.00	0.00	995.73		
4706.18	0.00	0.00	4520.70	133.69	-1160.82	2.00	180.00	1168.50		
10817.48	0.00	0.00	10632.00	133.69	-1160.82	0.00	0.00	1168.50		PBHL_MORGAN STATE 921-36D1CS

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	1402.36	GREENRIVER
Ellipsoid:	Clarke 1866		1680.00	1725.87	BIRDSNEST
Zone:	Zone 12N (114 W to 108 W)		2190.00	2268.60	MAHOGANY
Location:	SECTION 36 T9S R21E		4647.00	4832.48	WASATCH
System Datum:	Mean Sea Level		7343.00	7528.48	MESAVERDE
			9551.00	9736.48	SEGO
			9599.00	9784.48	CASTLEGATE
			10032.00	10217.48	BLACKHAWK

CASING DETAILS			
TVD	MD	Name	Size
2640.00	2747.48	8 5/8"	8.625

RECEIVED :



US ROCKIES REGION PLANNING

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

MORGAN STATE 921-36C PAD

MORGAN STATE 921-36D1CS

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 921-36D1CS
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 921-36D1CS	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 921-36D1CS, 637 FNL 1989 FWL					
Well Position	+N/-S	12.75 ft	Northing:	14,528,853.05 usft	Latitude:	39° 59' 52.897 N
	+E/-W	-27.45 ft	Easting:	2,060,048.79 usft	Longitude:	109° 30' 6.116 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	276.57

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	20.00	276.57	1,279.82	19.77	-171.63	2.00	2.00	0.00	276.57	
3,706.18	20.00	276.57	3,540.88	113.93	-989.19	0.00	0.00	0.00	0.00	
4,706.18	0.00	0.00	4,520.70	133.69	-1,160.82	2.00	-2.00	0.00	180.00	
10,817.48	0.00	0.00	10,632.00	133.69	-1,160.82	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 921-36D1CS
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 921-36D1CS	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	276.57	399.98	0.20	-1.73	1.75	2.00	2.00	2.00	0.00
500.00	4.00	276.57	499.84	0.80	-6.93	6.98	2.00	2.00	2.00	0.00
600.00	6.00	276.57	599.45	1.80	-15.59	15.69	2.00	2.00	2.00	0.00
700.00	8.00	276.57	698.70	3.19	-27.70	27.88	2.00	2.00	2.00	0.00
800.00	10.00	276.57	797.47	4.98	-43.24	43.52	2.00	2.00	2.00	0.00
900.00	12.00	276.57	895.62	7.16	-62.19	62.60	2.00	2.00	2.00	0.00
1,000.00	14.00	276.57	993.06	9.74	-84.54	85.10	2.00	2.00	2.00	0.00
1,100.00	16.00	276.57	1,089.64	12.70	-110.25	110.98	2.00	2.00	2.00	0.00
1,200.00	18.00	276.57	1,185.27	16.04	-139.29	140.21	2.00	2.00	2.00	0.00
1,300.00	20.00	276.57	1,279.82	19.77	-171.63	172.77	2.00	2.00	2.00	0.00
Start 2406.18 hold at 1300.00 MD										
1,400.00	20.00	276.57	1,373.78	23.68	-205.61	206.97	0.00	0.00	0.00	0.00
1,402.36	20.00	276.57	1,376.00	23.77	-206.41	207.78	0.00	0.00	0.00	0.00
GREENRIVER										
1,500.00	20.00	276.57	1,467.75	27.59	-239.59	241.17	0.00	0.00	0.00	0.00
1,600.00	20.00	276.57	1,561.72	31.51	-273.57	275.37	0.00	0.00	0.00	0.00
1,700.00	20.00	276.57	1,655.69	35.42	-307.54	309.58	0.00	0.00	0.00	0.00
1,725.87	20.00	276.57	1,680.00	36.43	-316.33	318.42	0.00	0.00	0.00	0.00
BIRDSNEST										
1,800.00	20.00	276.57	1,749.66	39.33	-341.52	343.78	0.00	0.00	0.00	0.00
1,900.00	20.00	276.57	1,843.63	43.25	-375.50	377.98	0.00	0.00	0.00	0.00
2,000.00	20.00	276.57	1,937.60	47.16	-409.48	412.18	0.00	0.00	0.00	0.00
2,100.00	20.00	276.57	2,031.57	51.07	-443.45	446.38	0.00	0.00	0.00	0.00
2,200.00	20.00	276.57	2,125.54	54.99	-477.43	480.59	0.00	0.00	0.00	0.00
2,268.60	20.00	276.57	2,190.00	57.67	-500.74	504.05	0.00	0.00	0.00	0.00
MAHOGANY										
2,300.00	20.00	276.57	2,219.51	58.90	-511.41	514.79	0.00	0.00	0.00	0.00
2,400.00	20.00	276.57	2,313.48	62.81	-545.38	548.99	0.00	0.00	0.00	0.00
2,500.00	20.00	276.57	2,407.45	66.73	-579.36	583.19	0.00	0.00	0.00	0.00
2,600.00	20.00	276.57	2,501.42	70.64	-613.34	617.39	0.00	0.00	0.00	0.00
2,700.00	20.00	276.57	2,595.39	74.55	-647.32	651.60	0.00	0.00	0.00	0.00
2,747.48	20.00	276.57	2,640.00	76.41	-663.45	667.83	0.00	0.00	0.00	0.00
8 5/8"										
2,800.00	20.00	276.57	2,689.35	78.46	-681.29	685.80	0.00	0.00	0.00	0.00
2,900.00	20.00	276.57	2,783.32	82.38	-715.27	720.00	0.00	0.00	0.00	0.00
3,000.00	20.00	276.57	2,877.29	86.29	-749.25	754.20	0.00	0.00	0.00	0.00
3,100.00	20.00	276.57	2,971.26	90.20	-783.23	788.40	0.00	0.00	0.00	0.00
3,200.00	20.00	276.57	3,065.23	94.12	-817.20	822.61	0.00	0.00	0.00	0.00
3,300.00	20.00	276.57	3,159.20	98.03	-851.18	856.81	0.00	0.00	0.00	0.00
3,400.00	20.00	276.57	3,253.17	101.94	-885.16	891.01	0.00	0.00	0.00	0.00
3,500.00	20.00	276.57	3,347.14	105.86	-919.14	925.21	0.00	0.00	0.00	0.00
3,600.00	20.00	276.57	3,441.11	109.77	-953.11	959.41	0.00	0.00	0.00	0.00
3,700.00	20.00	276.57	3,535.08	113.68	-987.09	993.62	0.00	0.00	0.00	0.00
3,706.18	20.00	276.57	3,540.88	113.93	-989.19	995.73	0.00	0.00	0.00	0.00
Start Drop -2.00										
3,800.00	18.12	276.57	3,629.56	117.43	-1,019.63	1,026.37	2.00	-2.00	0.00	0.00
3,900.00	16.12	276.57	3,725.12	120.80	-1,048.88	1,055.81	2.00	-2.00	0.00	0.00
4,000.00	14.12	276.57	3,821.65	123.78	-1,074.80	1,081.90	2.00	-2.00	0.00	0.00



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well MORGAN STATE 921-36D1CS
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 921-36D1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
4,100.00	12.12	276.57	3,919.03	126.38	-1,097.35	1,104.60	2.00	-2.00	0.00	
4,200.00	10.12	276.57	4,017.15	128.59	-1,116.51	1,123.90	2.00	-2.00	0.00	
4,300.00	8.12	276.57	4,115.88	130.40	-1,132.27	1,139.75	2.00	-2.00	0.00	
4,400.00	6.12	276.57	4,215.10	131.82	-1,144.59	1,152.15	2.00	-2.00	0.00	
4,500.00	4.12	276.57	4,314.70	132.84	-1,153.46	1,161.08	2.00	-2.00	0.00	
4,600.00	2.12	276.57	4,414.55	133.47	-1,158.87	1,166.53	2.00	-2.00	0.00	
4,700.00	0.12	276.57	4,514.52	133.69	-1,160.82	1,168.49	2.00	-2.00	0.00	
4,706.18	0.00	0.00	4,520.70	133.69	-1,160.82	1,168.50	2.00	-2.00	1,350.23	
Start 6111.30 hold at 4706.18 MD										
4,800.00	0.00	0.00	4,614.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
4,832.48	0.00	0.00	4,647.00	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
WASATCH										
4,900.00	0.00	0.00	4,714.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
5,000.00	0.00	0.00	4,814.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
5,100.00	0.00	0.00	4,914.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
5,200.00	0.00	0.00	5,014.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,114.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,214.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,314.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,414.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,514.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,614.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,714.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,814.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
6,100.00	0.00	0.00	5,914.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,014.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,114.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,214.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,314.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,414.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,514.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,614.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,714.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,814.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
7,100.00	0.00	0.00	6,914.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,014.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,114.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,214.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,314.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
7,528.48	0.00	0.00	7,343.00	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
MESAVERDE										
7,600.00	0.00	0.00	7,414.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,514.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,614.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,714.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,814.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
8,100.00	0.00	0.00	7,914.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,014.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,114.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,214.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,314.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,414.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,514.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00	



SDI
Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well MORGAN STATE 921-36D1CS
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 921-36D1CS	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	8,614.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00
8,900.00	0.00	0.00	8,714.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00
9,000.00	0.00	0.00	8,814.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00
9,100.00	0.00	0.00	8,914.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00
9,200.00	0.00	0.00	9,014.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00
9,300.00	0.00	0.00	9,114.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00
9,400.00	0.00	0.00	9,214.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00
9,500.00	0.00	0.00	9,314.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00
9,600.00	0.00	0.00	9,414.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00
9,700.00	0.00	0.00	9,514.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00
9,736.48	0.00	0.00	9,551.00	133.69	-1,160.82	1,168.50	0.00	0.00	0.00
SEGO									
9,784.48	0.00	0.00	9,599.00	133.69	-1,160.82	1,168.50	0.00	0.00	0.00
CASTLEGATE									
9,800.00	0.00	0.00	9,614.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00
9,900.00	0.00	0.00	9,714.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00
10,000.00	0.00	0.00	9,814.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00
10,100.00	0.00	0.00	9,914.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00
10,200.00	0.00	0.00	10,014.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00
10,217.48	0.00	0.00	10,032.00	133.69	-1,160.82	1,168.50	0.00	0.00	0.00
BLACKHAWK - BLACKHAWK_MORGAN STATE 921-36D1CS									
10,300.00	0.00	0.00	10,114.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00
10,400.00	0.00	0.00	10,214.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00
10,500.00	0.00	0.00	10,314.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00
10,600.00	0.00	0.00	10,414.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00
10,700.00	0.00	0.00	10,514.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00
10,800.00	0.00	0.00	10,614.52	133.69	-1,160.82	1,168.50	0.00	0.00	0.00
10,817.48	0.00	0.00	10,632.00	133.69	-1,160.82	1,168.50	0.00	0.00	0.00
TD at 10817.48 - PBHL_MORGAN STATE 921-36D1CS									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BLACKHAWK_MORGAI - hit/miss target - Shape	0.00	0.00	10,032.00	133.69	-1,160.82	14,528,967.21	2,058,885.89	39° 59' 54.218 N	109° 30' 21.035 W
PBHL_MORGAN STATI - plan hits target center - Circle (radius 100.00)	0.00	0.00	10,632.00	133.69	-1,160.82	14,528,967.21	2,058,885.89	39° 59' 54.218 N	109° 30' 21.035 W

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,747.48	2,640.00	8 5/8"	8.625	11.000	



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well MORGAN STATE 921-36D1CS
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 921-36D1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,402.36	1,376.00	GREENRIVER			
1,725.87	1,680.00	BIRDSNEST			
2,268.60	2,190.00	MAHOGANY			
4,832.48	4,647.00	WASATCH			
7,528.48	7,343.00	MESAVERDE			
9,736.48	9,551.00	SEGO			
9,784.48	9,599.00	CASTLEGATE			
10,217.48	10,032.00	BLACKHAWK			

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
300.00	300.00	0.00	0.00	Start Build 2.00	
1,300.00	1,279.82	19.77	-171.63	Start 2406.18 hold at 1300.00 MD	
3,706.18	3,540.88	113.93	-989.19	Start Drop -2.00	
4,706.18	4,520.70	133.69	-1,160.82	Start 6111.30 hold at 4706.18 MD	
10,817.48	10,632.00	133.69	-1,160.82	TD at 10817.48	

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 921-36D1CS
T9S-R21E
Section 36: NENW (Surface), NWNW (Bottom Hole)
Surface: 637' FNL, 1989' FWL
Bottom Hole: 504' FNL, 828' 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.

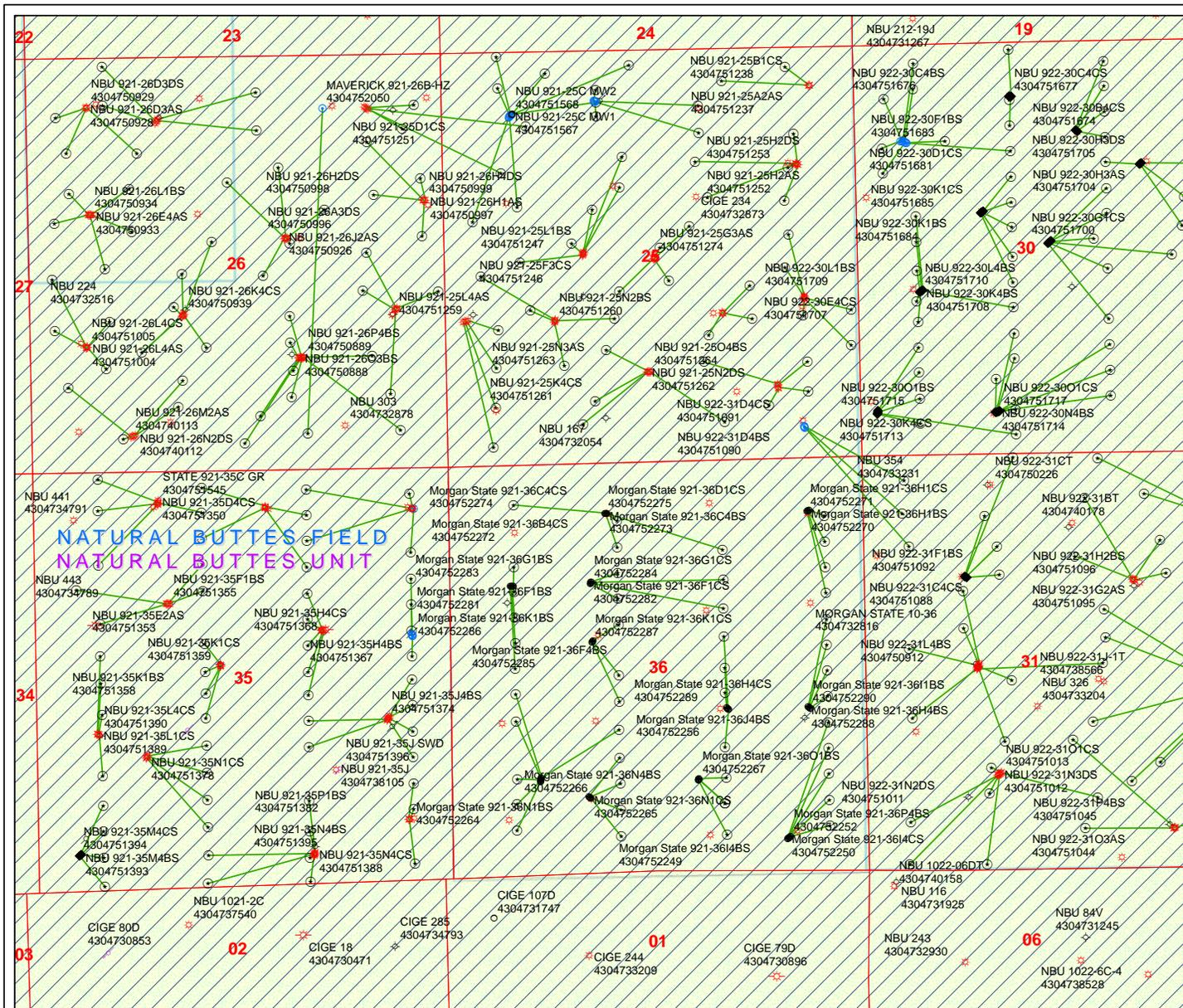
-Jim

Jim Davis
Utah Trust Lands Administration
jimdavis1@utah.gov

API Well Number: 43047522750000

Phone: (801) 538-5156

RECEIVED: February 23, 2012



API Number: 4304752275
Well Name: Morgan State 921-36D1CS
 Township T0.9 . Range R2.1 . Section 36
Meridian: SLBM
 Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
 Map Produced by Diana Mason

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



Well Name	KERR-MCGEE OIL & GAS ONSHORE, L.P. Morgan State 921-36D1CS			
String	Surf	Prod		
Casing Size(")	8.625	4.500		
Setting Depth (TVD)	2539	10632		
Previous Shoe Setting Depth (TVD)	0	2539		
Max Mud Weight (ppg)	8.4	13.0		
BOPE Proposed (psi)	500	5000		
Casing Internal Yield (psi)	3390	10690		
Operators Max Anticipated Pressure (psi)	7017	12.7		

Calculations	Surf String	8.625	"	
Max BHP (psi)	.052*Setting Depth*MW=	1109		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	804	NO	air drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	550	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)=	550	NO	
Required Casing/BOPE Test Pressure=		2373	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient	

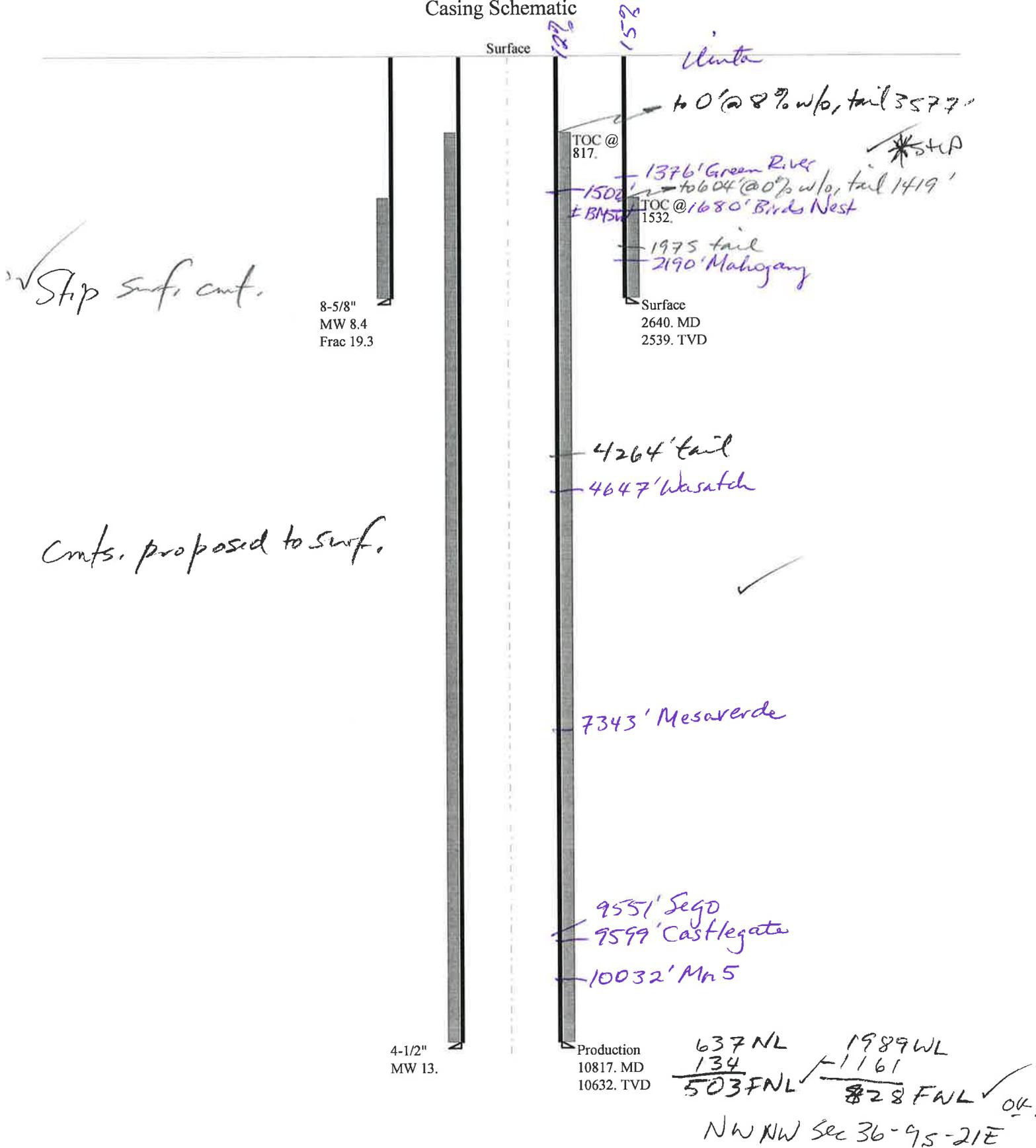
Calculations	Prod String	4.500	"	
Max BHP (psi)	.052*Setting Depth*MW=	7187		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	5911	NO	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	4848	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	5407	NO	Reasonable
Required Casing/BOPE Test Pressure=		5000	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		2539	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	

43047522750000 Morgan State 921-36D1CS

Casing Schematic



Well name:	43047522750000 Morgan State 921-36D1CS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Surface	Project ID:	43-047-52275
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: 110 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 1,532 ft

Burst

Max anticipated surface pressure: 2,234 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,539 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: 2,305 ft

Directional Info - Build & Drop

Kick-off point 300 ft
Departure at shoe: 631 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 20 °

Re subsequent strings:

Next setting depth: 10,632 ft
Next mud weight: 13.000 ppg
Next setting BHP: 7,180 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,539 ft
Injection pressure: 2,539 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	2640	8.625	28.00	I-55	LT&C	2539	2640	7.892	104544
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	1108	1880	1.697	2539	3390	1.34	71.1	348	4.90 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 2539 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:	43047522750000 Morgan State 921-36D1CS	
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.	
String type:	Production	Project ID: 43-047-52275
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: 223 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft
Cement top: 817 ft

Burst

Max anticipated surface pressure: 4,841 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 7,180 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)

Directional well information:

Kick-off point 300 ft
Departure at shoe: 1169 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 0 °

Tension is based on air weight.
Neutral point: 8,751 ft

Estimated cost: 160,026 (\$)

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	4815	5000	3.875	132000
1	5817	4.5	11.60	HCP-110	LT&C	10632	10817	3.875	28026

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	3251	8099	2.491	5900	10690	1.81	123.3	367.2	2.98 B
1	7180	8650	1.205	7180	10690	1.49	67.5	279	4.13 J

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

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

Date: March 5, 2012
Salt Lake City, Utah

Remarks:

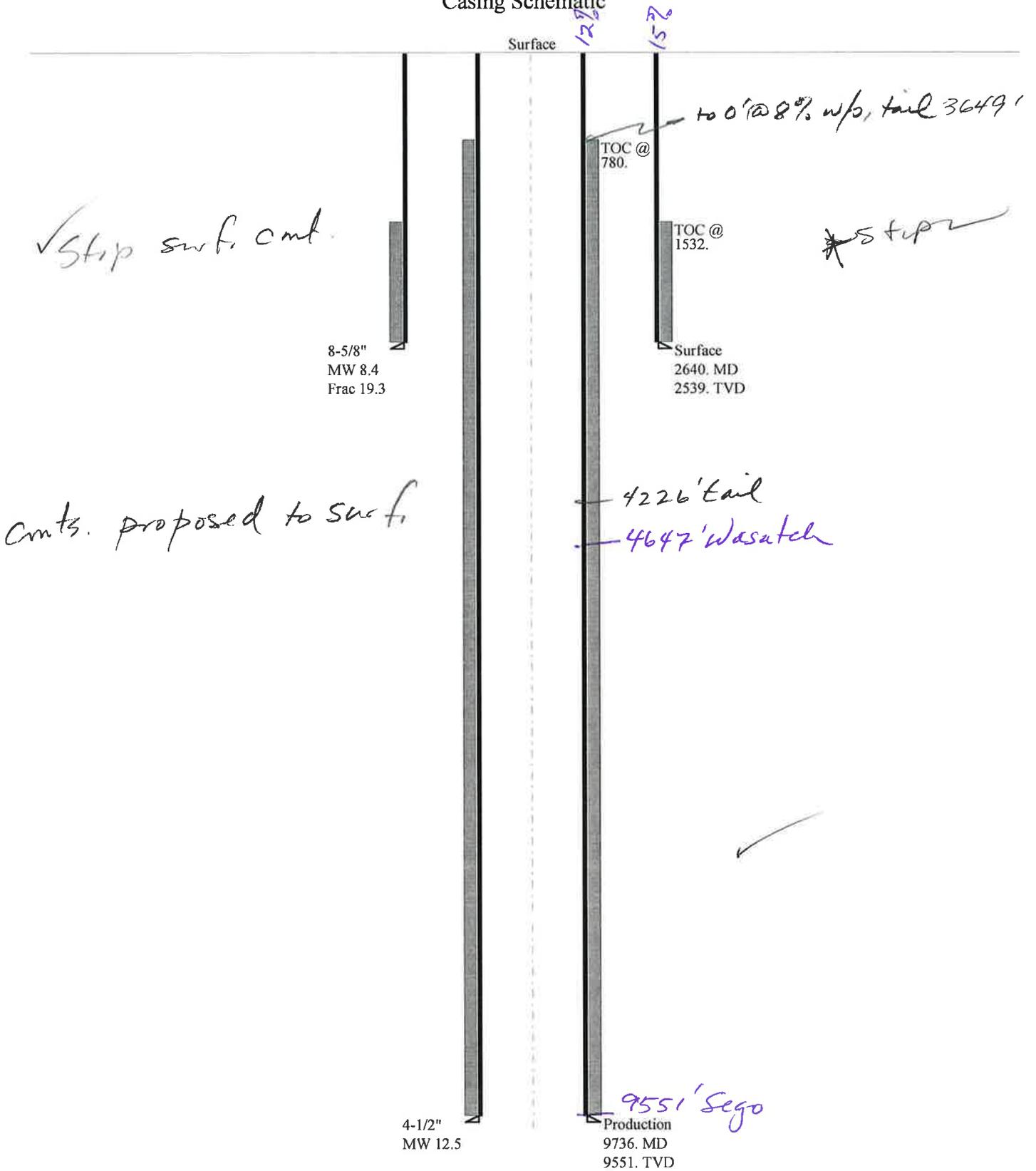
Collapse is based on a vertical depth of 10632 ft, a mud weight of 13 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

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

43047522750000 Morgan State 921-36D1CS

Casing Schematic



Well name:	43047522750000 Morgan State 921-36D1CS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Surface	Project ID:	43-047-52275
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: 110 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 1,532 ft

Burst

Max anticipated surface pressure: 2,234 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,539 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: 2,305 ft

Directional Info - Build & Drop

Kick-off point 300 ft
Departure at shoe: 631 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 20 °

Re subsequent strings:

Next setting depth: 9,251 ft
Next mud weight: 12.500 ppg
Next setting BHP: 6,007 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,539 ft
Injection pressure: 2,539 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	2640	8.625	28.00	I-55	LT&C	2539	2640	7.892	104544
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	1108	1880	1.697	2539	3390	1.34	71.1	348	4.90 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 2539 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:	43047522750000 Morgan State 921-36D1CS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Production	Project ID:	43-047-52275
Location:	UINTAH	COUNTY	

Design parameters:

Collapse

Mud weight: 12.500 ppg
 Internal fluid density: 1.500 ppg

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 208 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft
 Cement top: 780 ft

Burst

Max anticipated surface pressure: 4,101 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 6,202 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)

Directional Info - Build & Drop

Kick-off point 300 ft
 Departure at shoe: 1169 ft
 Maximum dogleg: 2 °/100ft
 Inclination at shoe: 0 °

Tension is based on air weight.
 Neutral point: 7,951 ft

Estimated cost: 194,515 (\$)

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	4815	5000	3.875	132000
1	4736	4.5	11.60	I-80	LT&C	9551	9736	3.875	62515

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	2751	5884	2.139	5160	7780	1.51	110.8	267	2.41 J
1	5457	6360	1.165	6202	7780	1.25	54.9	212	3.86 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 9551 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 921-36D1CS
API Number 43047522750000 **APD No** 5062 **Field/Unit** NATURAL BUTTES
Location: 1/4,1/4 NENW **Sec** 36 **Tw** 9.0S **Rng** 21.0E 637 FNL 1989 FWL
GPS Coord (UTM) 627843 4428607 **Surface Owner**

Participants

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

Regional/Local Setting & Topography

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

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

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

Surface Use Plan

Current Surface Use

Grazing
Wildlife Habitat
Existing Well Pad

New Road Miles

0

Well Pad

Width 352 **Length** 455

Src Const Material

Onsite

Surface Formation

UNTA

Ancillary Facilities N

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

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

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

Soil Type and Characteristics

Rocky sandy clay loam.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required? N

Berm Required? N

Erosion Sedimentation Control Required? N

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

Reserve Pit

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

1 Sensitivity Level

Characteristics / Requirements

The reserve pit is planned in an area of cut on the south corner of the location. Dimensions are 120' x 260' x 12' deep with two feet of freeboard. Kerr McGee has agreed to line this pit with a 30 mil synthetic liner and a layer of felt sub-liner.

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

Other Observations / Comments

David Hackford
Evaluator

1/11/2012
Date / Time

Application for Permit to Drill Statement of Basis

3/20/2012

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
5062	43047522750000	SITLA	GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		Surface Owner-APD		
Well Name	Morgan State 921-36D1CS		Unit		
Field	NATURAL BUTTES		Type of Work	DRILL	
Location	NENW 36 9S 21E S 637 FNL 1989 FWL GPS Coord (UTM) 627850E 4428610N				

Geologic Statement of Basis

Kerr McGee proposes to set 2,640' 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: 43047522750000

WELL NAME: Morgan State 921-36D1CS

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: 0637 FNL 1989 FWL

Engineering Review:

BOTTOM: 0504 FNL 0828 FWL

Geology Review:

COUNTY: UINTAH

LATITUDE: 39.99801

LONGITUDE: -109.50230

UTM SURF EASTINGS: 627850.00

NORTHINGS: 4428610.00

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 921-36D1CS
API Well Number: 43047522750000
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:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	8. WELL NAME and NUMBER: Morgan State 921-36D1CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0637 FNL 1989 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 36 Township: 09.0S Range: 21.0E Meridian: S	9. API NUMBER: 43047522750000
5. PHONE NUMBER: 720 929-6511	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 checked="" type="checkbox"/> SPUD REPORT Date of Spud: 6/28/2012	<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 6/28/2012 AT 9:30 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 921-36D1CS
Qtr/Qtr NENW Section 36 Township 9S Range 21E
Lease Serial Number ML 22265
API Number 4304752275

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

Date/Time 06/27/2012 07:00 HRS AM PM

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

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

Date/Time 07/08/2012 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 921-36D1CS	
9. API NUMBER: 43047522750000	
9. FIELD and POOL or WILDCAT: NATURAL BUTTES	
COUNTY: UINTAH	
STATE: UTAH	

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

1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: Morgan State 921-36D1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047522750000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0637 FNL 1989 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: 7/18/2012	<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 7/13/2012. DRILLED SURFACE HOLE TO 2775'. 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 18, 2012**

NAME (PLEASE PRINT) Cara Mahler	PHONE NUMBER 720 929-6029	TITLE Regulatory Analyst I
SIGNATURE N/A	DATE 7/18/2012	

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
4304752275	MORGAN STATE 921-36D1CS		NENW	36	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	187600	6/28/2012		7/18/12		
Comments: MIRU BUCKET RIG. SPUD WELL LOCATION ON 6/28/2012 AT 9:30 HRS. MURD BHL: hwnrw							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:							

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)

CARA MAHLER
 Name (Please Print)

 Signature
 REGULATORY ANALYST
 Title
 6/28/2012
 Date

RECEIVED

JUL 09 2012

Div. of Oil, Gas & Mining

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 921-36D1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047522750000
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: 0637 FNL 1989 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 36 Township: 09.0S Range: 21.0E Meridian: S	COUNTY: UINTAH STATE: UTAH

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

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

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

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

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

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5.LEASE DESIGNATION AND SERIAL NUMBER: ML 22265
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 921-36D1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047522750000
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: 0637 FNL 1989 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: 10/2/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width:100px;" type="text"/>

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

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

NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regulatory 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 921-36D1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047522750000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6511
9. FIELD and POOL or WILDCAT: MATHEW BUTTES	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0637 FNL 1989 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

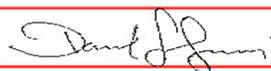
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 8/24/2012	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
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	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Drill Cutting Options"/>

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

The operator proposes drill cutting options for the Morgan State 921-36C Pad which includes: Morgan State 921-36D1CS, Morgan State 921-36C4CS, Morgan State 921-36C4BS, and Morgan State 921-36B4CS. Please see attached. Thank you.

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

Date: October 26, 2012

By: 

NAME (PLEASE PRINT) Cara Mahler	PHONE NUMBER 720 929-6029	TITLE Regulatory Analyst I
SIGNATURE N/A	DATE 8/24/2012	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43047522750000

Cuttings are to be stored on location and used for future reclamation. Transport of cuttings to a commercial landfarm is not allowed. This is a one- time approval for the four Morgan State wells based on the analytical results for the cuttings.

As part of Kerr-McGee's (KMG) on-going efforts to minimize surface impacts and reduce pad sizes in the Greater Natural Buttes, KMG is pursuing additional alternatives to more efficiently manage drilling and completion operations. As drilling operations progress further towards closed loop operations, larger pad locations and utilizing pits becomes less of a need.

Two additional options KMG would like to implement for managing drill cuttings, are hauling drill cuttings to an approved Utah Department of Oil, Gas and Mining Commercial Landfarm Disposal Facility, and incorporation of drill cuttings into the pad location during interim reclamation practices. In order to accomplish this all cuttings will be either be stock piled on location for use during interim reclamation or they will be stored in above ground containers prior to transport to an approved Utah Department of Oil, Gas and Mining Commercial Landfarm Disposal Facility.

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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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: 0637 FNL 1989 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 36 Township: 09.0S Range: 21.0E Meridian: S	COUNTY: UINTAH STATE: UTAH

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

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

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

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

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 November 06, 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 921-36D1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047522750000
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: 0637 FNL 1989 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 36 Township: 09.0S Range: 21.0E Meridian: S	COUNTY: UINTAH STATE: UTAH

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

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

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

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

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

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
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 921-36D1CS			
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		9. API NUMBER: 43047522750000			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0637 FNL 1989 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 <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: 12/29/2012	TYPE OF ACTION				
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. FINISHED DRILLING TO 10,815' ON 12/26/2012. CEMENTED PRODUCTION CASING. RELEASED H&P 298 RIG ON 12/29/2012. 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 31, 2012					
NAME (PLEASE PRINT) Lindsey Frazier	PHONE NUMBER 720 929-6857	TITLE Regulatory Analyst II			
SIGNATURE N/A	DATE 12/31/2012				

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 921-36D1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047522750000
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: 0637 FNL 1989 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: 2/4/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width:100px;" type="text"/>

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

No Activity for the month of January 2013. Well TD at 10,815

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 February 08, 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 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 921-36D1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047522750000
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: 0637 FNL 1989 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 36 Township: 09.0S Range: 21.0E Meridian: S	COUNTY: UINTAH STATE: UTAH

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

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

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

Started completing the well. Well TD at 10,815

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

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22265
1. TYPE OF WELL Gas Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	8. WELL NAME and NUMBER: MORGAN STATE 921-36D1CS
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	9. API NUMBER: 43047522750000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0637 FNL 1989 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 checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 3/12/2013	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="casing patch"/>

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

Due to gas migration, the operator respectfully requests authorization to set a casing patch over the previously set DV tool on the above captioned well. The procedure is as follows: DV TOOL set at 4318' MIRU RIG, NDWH. NUBOPE. MIRU WIRE LINE TRUCK. P/U 4 1/2" CBP & RIH. SET CBP @ 4338'. POOH RDMO WIRELINE. P/U 3 7/8" MILL RIH ON 2 3/8" TUBING & MAKE CLEAN OUT RUN TO 4338' POOH L/D C/O TOOLS. P/U SALTEL 4 1/2" SLIMLINE CASING PATCH (20') RIH. TAG CBP @ 4338', P/U 10'. SET PATCH W/ 10' ABOVE DV TOOL & 10' BELOW DV TOOL. POOH. MAKE GAUGE RING RUN THROUGH PATCH TO 4338'. POOH. PSI TST CSG PATCH TO MAX FRAC PSI.

Approved by the Utah Division of Oil, Gas and Mining

Date: March 12, 2013

By: *D. K. Quist*

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 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 921-36D1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047522750000
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: 0637 FNL 1989 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 10,815

**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
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 921-36D1CS
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	9. API NUMBER: 43047522750000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0637 FNL 1989 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 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: 4/15/2013	<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 PLACED ON PRODUCTION ON 04/15/2013. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.

**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 4/18/2013	

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 checked="" 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 921-36D1CS
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: NENW 637 FNL 1989 FWL S36,T9S,R21E AT TOP PRODUCING INTERVAL REPORTED BELOW: NWNW 492 FNL 817 FWL S36,T9S,R21E AT TOTAL DEPTH: NWNW 549 FNL 875 FWL S36,T9S,R21E		9. API NUMBER: 4304752275
14. DATE SPUDDED: 6/28/2012		10. FIELD AND POOL, OR WILDCAT NATURAL BUTTES
15. DATE T.D. REACHED: 12/26/2012		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENW 36 9S 21E S
16. DATE COMPLETED: 4/15/2013 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 10,815 TVD 10,639	19. PLUG BACK T.D.: MD 10,763 TVD 10,589	20. IF MULTIPLE COMPLETIONS, HOW MANY?* _____	21. DEPTH BRIDGE MD _____ PLUG SET: TVD _____
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) CBL/GR/CCL/TEMP-SD/DSN/ACTR-BHV		23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (Submit copy)	

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

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#	0	40		28			
11"	8 5/8" IJ-55	28#	0	2,774		1,025		0	
7 7/8"	4 1/2" P-110	11.6#	0	10,809		2,200		760	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	10,233							

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) MESAVERDE	7,646	10,635			7,646 10,635	0.36	240	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7646-10,635	PUMP 13,714 BBLs SLICK H2O & 302,021 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: 4/15/2013	TEST DATE: 4/26/2013	HOURS TESTED: 24	TEST PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 2,247	WATER – BBL: 574	PROD. METHOD: FLOWING
CHOKE SIZE: 20/64	TBG. PRESS. 1,494	CSG. PRESS. 2,306	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	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: →	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: →	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: →	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	1,476
				BIRD'S NEST	1,829
				MAHOGANY	2,268
				WASATCH	4,853
				MESAVERDE	7,611

35. ADDITIONAL REMARKS (Include plugging procedure)

The first 210' of the surface hole was drilled with a 1 1/4" bit. The remainder of surface hole was drilled with an 11" bit. A DV tool was placed in the well from 4318 feet – 4321 feet. Due to gas migration a casing patch was set over the DV tool as per approved sundry notice dated 3/12/13. DQX P-110 csg was run from surface to 4318 ft; LTC P-110 csg was run from 4318 ft to 10,809 ft. Attached is the chronological well history, perforation report & final survey.

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

NAME (PLEASE PRINT) TEENA PAULO TITLE STAFF REGULATORY SPECIALIST
 SIGNATURE  DATE 5/3/2013

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 921-36D1CS GREEN				Spud Date: 7/13/2012			
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: 12/29/2012		
Active Datum: RKB @5,014.00usft (above Mean Sea Level)				UWI: NE/NW/09/S/21/E/36/0/0/26/PM/N/637/W/0/1989/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
7/13/2012	17:00 - 20:30	3.50	MIRU	01	C	P		SKID TO MORGAN STATE 921-36D1CS, START RIG UP
	20:30 - 22:30	2.00	PRPSPD	01	B	P		WELD ON ROTATIONG HEAD, RIG UP FLOW LINE
	22:30 - 23:00	0.50	PRPSPD	01	B	P		PICK UP BHA, AIR OUT PUMPS
	23:00 - 0:00	1.00	DRLSUR	02	D	P		SPUD DRILL 12.25" SURFACE HOLE F/ 49'-150" ROP= 161' @ 81 FPH WOB= 14/22K RPM= 55/105 SPP=800/500 GPM= 595 TRQ= 2600/1900 PU/SO/ROT = 32/28/29 NO LOSSES HOLE IN GOOD SHAPE
7/14/2012	0:00 - 0:30	0.50	DRLSUR	02	D	P		DRILL 12.25" SURFACE HOLE F/ 150'-210" ROP= 161' @ 81 FPH WOB= 14/22K RPM= 55/105 SPP=800/500 GPM= 595 TRQ= 2600/1900 PU/SO/ROT = 32/28/29 NO LOSSES HOLE IN GOOD SHAPE
	0:30 - 2:00	1.50	DRLSUR	06	A	P		PULL OUT OF HOLE, LAY DOWN 12.25" BIT. PICK UP 11.00" BIT AND DIRECTIONAL TOOLS, TRIP IN HOLE
	2:00 - 8:00	6.00	DRLSUR	02	D	P		DRILL 11.00" SURFACE HOLE F/210'-780" ROP= 570' @ 95' FPH WOB= 22/30K RPM= 55/105 ON BTTM PUMP= 950PSI OFF BTTM PUMP= 740 PSI GPM= 576 TRQ= 2700/1900 UP/DWN/ROT= 60/55/58 HOLE IN GOOD SHAPE
	8:00 - 16:00	8.00	DRLSUR	02	D	P		DRILL 11.00" SURFACE HOLE F/780'-1450" ROP= 670' @ 84' FPH WOB= 22/30K RPM= 55/105 ON BTTM PUMP= 990PSI OFF BTTM PUMP= 830 PSI GPM= 576 TRQ= 2700/1900 UP/DWN/ROT= 80/70/74 HOLE IN GOOD SHAPE

Operation Summary Report

Well: MORGAN STATE 921-36D1CS GREEN

Spud Date: 7/13/2012

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: 12/29/2012

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

UWI: NE/NW/09/S/21/E/36/0/0/26/PM/N/637/W/0/1989/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	16:00 - 0:00	8.00	DRLSUR	02	D	P		DRILL 11.00" SURFACE HOLE F/1450'-1900' ROP= 450' @ 56' FPH WOB= 22/30K RPM= 55/105 ON BTTM PUMP= 1080 PSI OFF BTTM PUMP= 850 PSI GPM= 576 TRQ= 3100/2600 UP/DWN/ROT= 95/73/85 HOLE IN GOOD SHAPE ON AIR 1560', 1000CFM
7/15/2012	0:00 - 8:00	8.00	DRLSUR	02	D	P		DRILL 11.00" SURFACE HOLE F/1900'-2448' ROP=548' @ 68' FPH WOB= 22/30K RPM= 55/105 ON BTTM PUMP= 1240 PSI OFF BTTM PUMP= 815 PSI GPM= 576 TRQ= 3100/2600 UP/DWN/ROT= 115/98/101 HOLE IN GOOD SHAPE ON AIR, 1050-1400CFM
	8:00 - 13:30	5.50	DRLSUR	02	D	P		DRILL 11.00" SURFACE HOLE F/2448'-2775' ROP=327' @ 59' FPH WOB= 22/30K RPM= 55/105 ON BTTM PUMP= 1240 PSI OFF BTTM PUMP= 815 PSI GPM= 576 TRQ= 3100/2600 UP/DWN/ROT= 120/108/112 HOLE TIGHT RIGHT OFF BOTTOM, 2650'-2775' ON AIR, 1050-1400CFM ***FAIULRE***MUD PUMP #1 AT 2695', DRILLING AHEAD ON 1 PUMP, 275GALS/MIN
	13:30 - 15:00	1.50	DRLSUR	05	C	P		CIRCULATING, WITH ONLY MUD PUMP #2, PRIOR TO TRIP
	15:00 - 19:30	4.50	DRLSUR	06	D	P		PULL OUT OF HOLE, TIGHT. LAY DOWN BIT AND DIRECTIONAL TOOLS. RIG UP TO RUN CASING
	19:30 - 22:30	3.00	CSGSUR	12	C	P		PJSM /// RUN 62 JT'S, 8-5/8", 28#, J-55, LT&C CSG /// SHOE SET @ 2748' /// BAFFLE @ 2702'
	22:30 - 0:00	1.50	CSGSUR	12	B	P		PJSM WITH PRO PETRO CMT CREW /// PUMP 155 BBL'S 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/ 165 BBL'S WATER /// PLUG DN @ 23:58 07/15//2012 /// BUMP PLUG W/ 600 PSI /// FINAL LIFT = 320 PSI /// CHECK FLOATS - FLOAT HELD NO CMT TO SURFACE, CUT OFF WELL HEAD TOP OUTS W/ 475 sx TOTAL CLASS G CMT & 15.8 WT & 1.15 YIELD ///CMT TO SURFACE

Operation Summary Report

Well: MORGAN STATE 921-36D1CS GREEN

Spud Date: 7/13/2012

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: 12/29/2012

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

UWI: NE/NW/09/S/21/E/36/0/0/26/PM/N/637/NW/0/1989/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
7/16/2012	0:00 - 6:00	6.00	CSGSUR	13	A	P		PJSM WITH PRO PETRO CMT CREW /// PUMP 155 BBL'S 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/ 165 BBL'S WATER /// PLUG DN @ 23:58 07/15//2012 /// BUMP PLUG W/ 600 PSI /// FINAL LIFT = 320 PSI /// CHECK FLOATS - FLOAT HELD NO CMT TO SURFACE, CUT OFF WELL HEAD TOP OUTS W/ 475 sx TOTAL CLASS G CMT & 15.8 WT & 1.15 YIELD ///CMT TO SURFACE
								RIG RELEASE 0600
12/19/2012	9:00 - 9:30	0.50	MIRU3	01	C	P		PREPARE & SKID RIG
	9:30 - 10:30	1.00	PRSPD	14	A	P		NIPPLE UP BOP'S & EQUIPMENT
	10:30 - 11:30	1.00	MIRU3	01	B	P		RIG UP AFTER SKID
	11:30 - 12:30	1.00	PRSPD	15	A	P		CHANGE OUT BAILS & MAKE UP TEST ASSY
	12:30 - 17:30	5.00	PRSPD	15	A	P		PRSSURE TEST BOP'S & EQUIPMENT AS PER PROGRAM TEST CASING TO 1500 PSI / TEST ANNULAR TO 250/ 2500 / TEST BOP'S & EQUIPMENT 250/5000 PSI
	17:30 - 18:00	0.50	PRSPD	15	A	P		PRESSURE TEST MI SWACO PRESSURE CONTROL EQUIPMENT
	18:00 - 18:30	0.50	PRSPD	14	B	P		INSTALL WEAR BUSHING
	18:30 - 19:00	0.50	PRSPD	23		P		PRE SPUD INSPECTION
	19:00 - 20:00	1.00	PRSPD	06	A	P		PICK UP & MAKE UP DIRECTIONAL BHA WITH WEATHERFORD, SCIRBE ORIENTATE AND TEST SAME .TIH WITH HWT DRILL PIPE
	20:00 - 21:00	1.00	PRSPD	07	A	P		LEVEL DERRICK
	21:00 - 22:30	1.50	PRSPD	06	A	P		CONTINUE TO TIH TO 2,645' TAG CEMENT
	22:30 - 23:00	0.50	DRLPRC	02	F	P		DRILL CEMENT & SHOE TRACK FROM 2,645' TO 2,765' , CLEAN OUT RAT HOLE TO 2,792'
	23:00 - 23:30	0.50	DRLPRC	02	B	P		DRILL / F/ 2,792' TO 2,813' = 21' @42 FPH WOB 20 TOP DRIVE RPM 40 MUD MOTOR RPM 65 PUMPS 90 SPM= 405GPM PUMP PRESSURE ON/OFF BTM 1050/650 TORQUE ON/OFF BTM 5,000/ 2000 PICK UP WT 103,000 SLACK OFF WT 75,000 ROT WT 95,000 MUD WT 8.5 VIS 26,
	23:30 - 0:00	0.50	DRLPRC	06	A	S		DRILL STRING PLUGGED ATTEMPT TO UNPLUG DRILL STRING NOTE: MADE CONNECTION DRILL STRING PRESSURED UP WITH 82 STROKES *** DRILL STRING PLUGGED***
12/20/2012	0:00 - 2:30	2.50	DRLPRC	06	A	S		TOOH TO DIRECTIONAL TOOLS *** PLUGGED BIT ***

Operation Summary Report

Well: MORGAN STATE 921-36D1CS GREEN

Spud Date: 7/13/2012

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: 12/29/2012

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

UWI: NE/NW/09/S/21/E/36/0/0/26/PM/N/637/W/0/1989/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	2:30 - 4:00	1.50	DRLPRC	06	A	S		HANDLE & PUMP THRU BHA / BIT PLUGGED WITH CEMENT PUMP THRU STANDS ON THE WAY IN HOLE / BLOW DOWN SURFACE EQUIPMENT SEVERAL TIMES DUE TO - DEGREE WEATHER *** PLUGGED BIT ***
	4:00 - 7:30	3.50	DRLPRC	06	A	S		TIH WITH BIT # 2 WASH LAST STAND TO BOTTOM *** PLUGGED BIT ***
	7:30 - 15:00	7.50	DRLPRC	02	B	P		DRILL /SLIDE / SURVEY/ F/ 2,813' TO 3,763' = 950' @126.66 FPH WOB 22-27000 TOP DRIVE RPM 40-75 MUD MOTOR RPM 127 PUMPS 135 SPM= 607GPM PUMP PRESSURE ON/OFF BTM 2000/1630 TORQUE ON/OFF BTM 8,000/ 6,000 PICK UP WT 114,000 SLACK OFF WT 98,000 ROT WT 105,000 SLIDE 141' IN 105 MIN 14.54% OF FOOTAGE DRILLED, 25%OF HRS DRILLED MUD WT 8.5 VIS 26, PUMPING 5-10 BBL SWEEPS EVERY STAND WITH 2% LCM NOV-D WATER SWACO OFF LINE NO FLUID LOST
	15:00 - 15:30	0.50	DRLPRC	07	A	P		SERVICE RIG @ 3,763'
	15:30 - 19:30	4.00	DRLPRC	02	B	P		DRILL /SLIDE / SURVEY/ F/ 3,763' TO 4,270' = 507' @ 126.75 FPH WOB 23-28000 TOP DRIVE RPM 40-75 MUD MOTOR RPM 79 PUMPS 110 SPM= 495GPM PUMP PRESSURE ON/OFF BTM 1550/1240 TORQUE ON/OFF BTM 8,000/ 6,000 PICK UP WT 125,000 SLACK OFF WT 105,000 ROT WT 112,000 SLIDE 69' IN 60 MIN 13.66% OF FOOTAGE DRILLED, 25%OF HRS DRILLED MUD WT 8.7 VIS 26, PUMPING 5-10 BBL SWEEPS EVERY STAND WITH 2% LCM NOV-D WATER SWACO OFF LINE NO FLUID LOST
	19:30 - 20:30	1.00	DRLPRC	22	K	Z		CHANGE OUT VALVES & GUIDES IN BOTH MUD PUMPS *** WORK ON MUD PUMPS ***

Operation Summary Report

Well: MORGAN STATE 921-36D1CS GREEN		Spud Date: 7/13/2012	
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: 12/29/2012
Active Datum: RKB @5,014.00usft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/36/0/0/26/PM/N/637/W/0/1989/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	20:30 - 0:00	3.50	DRLPRC	02	B	P		DRILL /SLIDE / SURVEY/ F/ 4,270' TO 4,544' = 274' @ 78.28 FPH WOB 23-29000 TOP DRIVE RPM 40-75 MUD MOTOR RPM 79 PUMPS 110 SPM = 495GPM PUMP PRESSURE ON/OFF BTM 1590/1250 TORQUE ON/OFF BTM 10,000/ 7,000 PICK UP WT 128,000 SLACK OFF WT 109,000 ROT WT 120,000 SLIDE 41' IN 40 MIN 14.96% OF FOOTAGE DRILLED, 22.22% OF HRS DRILLED MUD WT 8.7 VIS 26, PUMPING 5-10 BBL SWEEPS EVERY STAND WITH 2% LCM NOV-D WATER SWACO OFF LINE 50BBL FLUID LOST
12/21/2012	0:00 - 6:00	6.00	DRLPRC	02	B	P		DRILL /SLIDE / SURVEY/ F/ 4,544' TO 5,244' = 700' @ 116.66 FPH WOB 23-29000 TOP DRIVE RPM 40-75 MUD MOTOR RPM 79 PUMPS 110 SPM = 495GPM PUMP PRESSURE ON/OFF BTM 1590/1250 TORQUE ON/OFF BTM 10,000/ 7,000 PICK UP WT 128,000 SLACK OFF WT 109,000 ROT WT 120,000 SLIDE 30' IN 35 MIN 5.5% OF FOOTAGE DRILLED, 11.67% OF HRS DRILLED MUD WT 8.9 VIS 26, PUMPING 5-10 BBL SWEEPS EVERY STAND WITH 2% LCM NOV-D WATER SWACO OFF LINE NO FLUID LOST LIGHT MUD UP @ 4,800' WITH LIGNITE
	6:00 - 16:30	10.50	DRLPRV	02	B	P		DRILL /SLIDE / SURVEY/ F/ 5,244' TO 6,125' = 881' @ 83.90 FPH WOB 23-29000 TOP DRIVE RPM 50-75 MUD MOTOR RPM 98 PUMPS 136 SPM = 612 GPM PUMP PRESSURE ON/OFF BTM 2305 /2130 TORQUE ON/OFF BTM 10,000/ 11,000 PICK UP WT 154,000 SLACK OFF WT 122,000 ROT WT 140,000 SLIDE 62' IN 90 MIN 5.97% OF FOOTAGE DRILLED, 13.04% OF HRS DRILLED MUD WT 9.0 VIS 34, NOV-D WATER / CONVENTIONAL SWACO OFF LINE NO FLUID LOST

Operation Summary Report

Well: MORGAN STATE 921-36D1CS GREEN

Spud Date: 7/13/2012

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: 12/29/2012

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

UWI: NE/NW/09/S/21/E/36/0/0/26/PM/N/637/W/0/1989/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	16:30 - 17:00	0.50	DRLPRV	07	A	P		SERVICE RIG @ 6,125'
	17:00 - 0:00	7.00	DRLPRV	02	B	P		DRILL / SURVEY/ F/ 6,125' TO 6,736' = 611' @ 87.28 FPH WOB 23-30,000 TOP DRIVE RPM 50-75 MUD MOTOR RPM 98 PUMPS 136 SPM = 612 GPM PUMP PRESSURE ON/OFF BTM 2305 /2130 TORQUE ON/OFF BTM 14,000/ 12,000 PICK UP WT 182,000 SLACK OFF WT 127,000 ROT WT 150,000 NO SLIDES MUD WT 8.9 VIS 33, NOV-D WATER / CONVENTIONAL SWACO OFF LINE NO FLUID LOST
12/22/2012	0:00 - 14:00	14.00	DRLPRV	02	B	P		DRILL / SURVEY/ F/ 6,736' TO 7,641' = 905' @ 64.64 FPH WOB 23-31,000 TOP DRIVE RPM 50-75 MUD MOTOR RPM 98 PUMPS 136 SPM = 612 GPM PUMP PRESSURE ON/OFF BTM 2305 /2130 TORQUE ON/OFF BTM 14,000/ 12,000 PICK UP WT 198,000 SLACK OFF WT 156,000 ROT WT 169,000 NO SLIDES MUD WT 8.9 VIS 33, NOV-CONVENTIONAL SWACO OFF LINE NO FLUID LOST
	14:00 - 15:00	1.00	DRLPRV	05	C	P		CIRCULATE BOTTOMS UP @ 7,641'
	15:00 - 20:30	5.50	DRLPRV	06	A	P		TOOH FOR BIT & MUD MOTOR
	20:30 - 21:30	1.00	DRLPRV	06	A	Z		REMOVE ROTATING HEAD WORK SEVERAL TIMES HYDRAULIC CLAMP WOULD NOT OPEN PROPERLY *** HYDRAULIC CLAMP***
	21:30 - 22:30	1.00	DRLPRV	06	A	P		TOOH WITH BHA & BIT
	22:30 - 0:00	1.50	DRLPRV	06	A	P		CHANGE OUT MUD MOTOR & BIT, SCRIBE, ORIENTATE AND TEST SAME, TIH WITH BHA
12/23/2012	0:00 - 2:30	2.50	DRLPRV	09	A	P		SLIP & CUT DRILLING LINE, BLOW DOWN SURFACE EQUIPMENT & INSTALL ROTATING HEAD
	2:30 - 6:00	3.50	DRLPRV	06	A	P		TIH WITH BIT # 3 WASH LAST STAND TO BOTTOM @ 7,641' NO HOLE PROBLEMS OR FILL
	6:00 - 7:00	1.00	DRLPRV	05	I	Z		CIRUALTE HOLE @ SLOW PUMP RATE, CLEAN BOTTOM OF HOLE FOR POSSIBLE JUNK, MEANWHILE THAW OUT SHALE SHAKER TROUGH *** THAW OUT SHALE SHAKER TROUGH ***

Operation Summary Report

Well: MORGAN STATE 921-36D1CS GREEN

Spud Date: 7/13/2012

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: 12/29/2012

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

UWI: NE/NW/0/9/S/21/E/36/0/0/26/PM/N/637/W/0/1989/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:00 - 15:00	8.00	DRLPRV	02	B	P		DRILL / SLIDE / SURVEY/ F/ 7,641' TO 8,393' = 752' @ 94 FPH WOB 22-27,000 TOP DRIVE RPM 50-75 MUD MOTOR RPM 98 PUMPS 136 SPM = 612 GPM PUMP PRESSURE ON/OFF BTM 2450 /2300 TORQUE ON/OFF BTM 18,000/ 14,000 PICK UP WT 209,000 SLACK OFF WT 143,000 ROT WT 175,000 SLIDE 56' IN 105 MIN 7.41% OF FOOTAGE DRILLED, 25%OF HRS DRILLED MUD WT 9.3 VIS 33, NOV-CONVENTIONAL SWACO OFF LINE NO FLUID LOST
	15:00 - 15:30	0.50	DRLPRV	07	A	P		SERVICE RIG @ 8,393'
	15:30 - 17:00	1.50	DRLPRV	02	B	P		DRILL / SURVEY/ F/ 8,393' TO 8,533' = 140' @ 93.33 FPH WOB 22-27,000 TOP DRIVE RPM 50-75 MUD MOTOR RPM 98 PUMPS 136 SPM = 612 GPM PUMP PRESSURE ON/OFF BTM 2450 /2300 TORQUE ON/OFF BTM 18,000/ 14,000 PICK UP WT 209,000 SLACK OFF WT 143,000 ROT WT 175,000 NO SLIDES MUD WT 9.3 VIS 33, NOV-CONVENTIONAL SWACO OFF LINE NO FLUID LOST
	17:00 - 19:00	2.00	DRLPRV	05	I	Z		CIRCULATE HOLE WHILE THAWING INLET LINE TO GAS BUSTER *** THAWING INLET ON GAS BUSTER ***
	19:00 - 0:00	5.00	DRLPRV	02	B	P		DRILL / SLIDE / SURVEY/ F/ 8,533' TO 8,990' = 457' @ 91.4 FPH WOB 22-27,000 TOP DRIVE RPM 50-75 MUD MOTOR RPM 91 PUMPS 126 SPM = 567 GPM PUMP PRESSURE ON/OFF BTM 2468 /2300 TORQUE ON/OFF BTM 17,000/ 17,000 PICK UP WT 211,000 SLACK OFF WT 157,000 ROT WT 181,000 SLIDE 56' IN 105 MIN 7.41% OF FOOTAGE DRILLED, 25%OF HRS DRILLED MUD WT 9.3 VIS 33, NOV-CONVENTIONAL SWACO ON LINE 100 - 175 PSI ON ANNULAS 10 TO 15' FLARE 30 BBL FLUID LOST

Operation Summary Report

Well: MORGAN STATE 921-36D1CS GREEN

Spud Date: 7/13/2012

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: 12/29/2012

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

UWI: NE/NW/09/S/21/E/36/0/0/26/PM/N/637/W/0/1989/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
12/24/2012	0:00 - 15:30	15.50	DRLPRV	02	B	P		DRILL / SURVEY/ F/ 8,990' TO 9,903' = 913' @ 58.90 FPH WOB 22-28,000 TOP DRIVE RPM 50-70 MUD MOTOR RPM 86 PUMPS 120 SPM = 540 GPM PUMP PRESSURE ON/OFF BTM 2215 /2030 TORQUE ON/OFF BTM 20,000/ 17,000 PICK UP WT 245,000 SLACK OFF WT 163,000 ROT WT 200,000 MUD WT 9.5 VIS 33, NOV-DE WATERING SWACO ON LINE 200 - 300 PSI ON ANNULAS 10 TO 15' FLARE 30 BBL FLUID LOST
	15:30 - 16:00	0.50	DRLPRV	07	A	P		SERVICE RIG @ 9,903'
	16:00 - 21:30	5.50	DRLPRV	02	B	P		DRILL / SURVEY/ F/ 9,903' TO 10,095' = 192' @ 35 FPH WOB 23-28,000 TOP DRIVE RPM 45-70 MUD MOTOR RPM 80 PUMPS 112 SPM = 504 GPM PUMP PRESSURE ON/OFF BTM 2468 /2300 TORQUE ON/OFF BTM 20,000/ 18,000 PICK UP WT 226,000 SLACK OFF WT 177,000 ROT WT 200,000 MUD WT 9.5 VIS 34, NOV-OFF SWACO ON LINE 300 - 550 PSI ON ANNULAS 10 TO 15' FLARE 90 BBL FLUID LOST
	21:30 - 0:00	2.50	DRLPRV	08	B	Z		CHANGE OUT O-RING GASKET ON MUD LINE
12/25/2012	0:00 - 6:00	6.00	DRLPRV	02	B	P		DRILL / SURVEY/ F/ 10,095' TO 10,260' = 165' @ 27.5 FPH WOB 24-28,000 TOP DRIVE RPM 45-65 MUD MOTOR RPM 80 PUMPS 112 SPM = 504 GPM PUMP PRESSURE ON/OFF BTM 2468 /2300 TORQUE ON/OFF BTM 20,000/ 18,000 PICK UP WT 226,000 SLACK OFF WT 177,000 ROT WT 200,000 MUD WT 9.6 VIS 34, NOV-OFF SWACO ON LINE 300 - 550 PSI ON ANNULAS 10 TO 15' FLARE 90 BBL FLUID LOST

Operation Summary Report

Well: MORGAN STATE 921-36D1CS GREEN

Spud Date: 7/13/2012

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: 12/29/2012

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

UWI: NE/NW/0/9/S/21/E/36/0/0/26/PM/N/637/W/0/1989/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 17:00	11.00	DRLPRV	02	B	P		DRILL / SURVEY/ F/ 10,095' TO 10,564' = 469' @ 42.63 FPH WOB 24-30,000 TOP DRIVE RPM 45-70 MUD MOTOR RPM 72 - 80 PUMPS 100 / 112 SPM = 504 GPM PUMP PRESSURE ON/OFF BTM 2468 /2300 TORQUE ON/OFF BTM 20,000/ 14,000 PICK UP WT 248,000 SLACK OFF WT 178,000 ROT WT 205,000 MUD WT 11.6 VIS 40, NOV-OFF SWACO OFF NO FLARE 100 BBL FLUID LOST
	17:00 - 18:00	1.00	DRLPRV	07	A	P		SERVICE RIG & CHANGE OUT ROTATING RUBBER @ 10,564'
	18:00 - 0:00	6.00	DRLPRV	02	B	P		DRILL / SURVEY/ F/ 10,564' TO 10,711' = 147' @ 24.5 FPH WOB 26-31,000 TOP DRIVE RPM 45-75 MUD MOTOR RPM 72 - 80 PUMPS 100 - 112 SPM = 504 GPM PUMP PRESSURE ON/OFF BTM 2550 /2350 TORQUE ON/OFF BTM 18,000/ 17,000 PICK UP WT 242,000 SLACK OFF WT 181,000 ROT WT 206,000 MUD WT 11.8 VIS 45, NOV-OFF SWACO OFF NO FLARE 150 BBL FLUID LOST
12/26/2012	0:00 - 3:30	3.50	DRLPRV	02	B	P		DRILL / SURVEY/ F/ 10,711' TO 10,815'TD = 104' @ 29.7 FPH WOB 30,000 TOP DRIVE RPM 45-75 MUD MOTOR RPM 72 - 80 PUMPS 100 - 112 SPM = 504 GPM PUMP PRESSURE ON/OFF BTM 2550 /2350 TORQUE ON/OFF BTM 18,000/ 17,000 PICK UP WT 242,000 SLACK OFF WT 181,000 ROT WT 206,000 MUD WT 11.8 VIS 45, NOV-OFF SWACO OFF NO FLARE NO MUD LOST
	3:30 - 5:00	1.50	DRLPRV	05	C	P		CIRCULATE & CLEAN HOLE @ 10,815' TD
	5:00 - 10:30	5.50	DRLPRV	06	E	P		WIPER TRIP FROM 10,815' TO 2,792',WORK THRU TIGHT SPOTS, 4,208 2,919-2,899
	10:30 - 11:00	0.50	DRLPRV	07	A	P		DAILY RIG SERVICE

Operation Summary Report

Well: MORGAN STATE 921-36D1CS GREEN

Spud Date: 7/13/2012

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: 12/29/2012

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

UWI: NE/NW/09/S/21/E/36/0/0/26/PM/N/637/W/0/1989/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	11:00 - 14:00	3.00	DRLPRV	06	E	P		BREAK CIRC / TRIP IN HOLE F/2,792,WORK THRU BRIDGES @ 4,108, 4,154,4,210,4,587, 4,986 W&R BRIDGES 4,365,4,696 ,CIH TO 7,000'
	14:00 - 15:00	1.00	DRLPRV	07	C	P		CHANGE OUT SAVER SUB ,BREAK CIRC
	15:00 - 18:00	3.00	DRLPRV	06	E	P		TRIP IN F/ 7,000 WASH THRU BRIDGES 9,234,9318, CIH 10,725 WASH 90' TO BTM 4' FILL / FLUID LOSS 40 BBLS
	18:00 - 21:00	3.00	DRLPRV	05	B	P		CIRC AND COND MUD RAISE MUD WT F/ 11.8 TO 12.2 VIS 45 8-10% LCM
	21:00 - 0:00	3.00	DRLPRV	06	E	X		WIPER TRIP #2 F/ 10,815 TO 7,050 / NO PROBLEM
12/27/2012	0:00 - 7:00	7.00	DRLPRV	06	E	X		WIPER TRIP #2 / TRIP OUT F/ 7,050 TO CSG SHOE 2,765 TIGHT @ 4,210 / TIH F/ 2,765 BREAK CIRC 4,500, 7,020 /TIGHT @ 4,210, TRIP IN TO 10,745, WASH 70' TO BTM,2' FILL
	7:00 - 9:00	2.00	DRLPRV	05	C	P		CCH F/ OPEN HOLE LOGS
	9:00 - 14:00	5.00	DRLPRV	06	B	P		TOH F/ OPEN HOLE LOGS
	14:00 - 17:00	3.00	DRLPRV	22	L	Z		PULL SMITH ROTATING HEAD / HAD TROUBLE RELEASING INTERNAL CLAMP, THAT HOLDS ROTATING HEAD RUBBER
	17:00 - 19:00	2.00	DRLPRV	06	B	P		TOH W/ BHA , PULL MWD, L/D PONY SUB,RACK BACK DIR TOOLS,BREAK BIT L/D MUD MOTOR
	19:00 - 0:00	5.00	DRLPRV	11	G	P		HSM RIG UP HALLIBURTON ,RUN TRIPLE COMBO ,LOGGER DEPTH 10,811, DRILLER 10,815
12/28/2012	0:00 - 1:00	1.00	EVALPR	11	G	P		RUN TRIPLE COMBO LOGGER DEPTH 10,811,DRILLER DEPTH 10,815 LOG OUT TO SURFACE/ R/D SAME
	1:00 - 2:00	1.00	CSGPRO	12	A	P		PULL WEAR BUSHING,X/O CASING BAILS
	2:00 - 14:30	12.50	CSGPRO	12	C	P		JSA RIG UP FRANKS, MAKE UP FLOAT EQUIP & TEST,RUN 41/2 CASING,RUN 152JTS 41/2,11.6# P-110 LTC,1DV TOOL, 1X/O,95 JTS 41/2,11.6# P-110 DQX CASING,SET @ 10,808 ,LAND CASING W/ 105 000 BH MARKER @10,199,MV MARKER@7,500, DV TOOL @4,294,X/O @4,291
	14:30 - 16:00	1.50	CSGPRO	05	D	P		FILL & CIRC CASING /RD FRANKS / CT-JSA WITH BJ
	16:00 - 18:30	2.50	CSGPRO	12	E	P		PUMP 1ST STAGE OF CEMENT, 10 BBLS SPACER ; CEMENT 1,600 SKS -14.3 PPG -1.33 YIELD /DROP PLUG, DISPLACE,W/110 BBLS WATER ,67 BBLS 12,2# MUD /BUMP PRESS@ 2,608 / FLOATS OK
	18:30 - 22:30	4.00	CSGPRO	13	A	P		DROP BOMB - WAIT 30 MINS / STAGE TOOL OPENED @ 920 PSI / CIRCULATE OUT 40 BBLS CEMENT (WAIT ON CEMENT)
	22:30 - 0:00	1.50	CSGPRO	12	E	P		PUMP 2ND STAGE OF CEMENT, 10 BBLS SPACER ; CEMENT 600 SKS -13.0 PPG - 1.79 YIELD/50 SKS -15.8PPG-1.15 YIELD / 67.3 BBLS DISPLACEMENT /LIFT PRESSURE @ 1,250,BUMP PRESSURE @ 2,800 PSI, 1 BBL BACK, W/ 36 BBLS LEAD CMT TO PIT / RD CEMENTERS
12/29/2012	0:00 - 0:30	0.50	CSGPRO	12	E	P		FLUSH BOP STACK,FLOWLINE,BLOW DOWN MUD LINE BACK TO MUD PUMP
	0:30 - 1:30	1.00	CSGPRO	12	E	P		BACK OUT LANDING JOINT,SET PACKOFF,LAY DOWN SETTING TOOL.
	1:30 - 2:00	0.50	CSGPRO	12	A	P		CHANGE OUT CASING BAILS AND ELEVATORS ,TO DRILLING BAILS

API Well Number: 43047522750000

US ROCKIES REGION

Operation Summary Report

Well: MORGAN STATE 921-36D1CS GREEN				Spud Date: 7/13/2012				
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: 12/29/2012		
Active Datum: RKB @5,014.00usft (above Mean Sea Level)				UWI: NE/NW/0/9/S/21/E/36/0/0/26/PM/N/637/W/0/1989/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	2:00 - 4:00	2.00	RDMO	14	A	P		REVIEW CT-JSA NIPPLE DOWN BOP,PREP TO SKID,RELEASE RIG TO 1ST WELL MS 921-36B4CS 04:00 HRS 12/29/2012

US ROCKIES REGION

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	MORGAN STATE 921-36D1CS GREEN	Wellbore No.	OH
Well Name	MORGAN STATE 921-36D1CS	Wellbore Name	MORGAN STATE 921-36D1CS
Report No.	1	Report Date	3/4/2013
Project	UTAH-UINTAH	Site	MORGAN STATE 921-36C PAD
Rig Name/No.		Event	COMPLETION
Start Date	2/8/2013	End Date	4/15/2013
Spud Date	7/13/2012	Active Datum	RKB @5,014.00usft (above Mean Sea Level)
UWI	NE/NW/09/S/21/E/36/0/0/26/PM/N/637W/0/1989/0/0		

1.3 General

Contractor		Job Method	Supervisor
Perforated Assembly		Conveyed Method	

1.4 Initial Conditions

Fluid Type	Fluid Density	Gross Interval	7,646.0 (usft)-10,635.0 (us	Start Date/Time	3/4/2013 12:00AM
Surface Press	Estimate Res Press	No. of Intervals	73	End Date/Time	3/4/2013 12:00AM
TVD Fluid Top	Fluid Head	Total Shots	240	Net Perforation Interval	76.00 (usft)
Hydrostatic Press	Press Difference	Avg Shot Density	3.16 (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)	4.00	Phasing (°)	90.00
MD Base (usft)	7,648.0	Charge Desc /Charge Manufacturer	23.00 PRODUCTIO
MD Top (usft)	7,646.0	Charge Weight (gram)	N
CCL-T S (usft)			
CCL@ (usft)			
Formation/ Reservoir			
Date	3/4/2013 12:00AM		

2 Intervals

2.1 Perforated Interval

Date	3/4/2013 12:00AM	Formation/ Reservoir	MESAVERDE/	CCL@ (usft)		CCL-T S (usft)		MD Top (usft)	7,646.0	MD Base (usft)	7,648.0	Shot Density (shot/ft)	4.00	Misfires/ Add. Shot		Diameter (in)	0.360	Carr Type /Stage No	EXP/	Carr Size (in)	3.375	Phasing (°)	90.00	Charge Desc /Charge Manufacturer	23.00 PRODUCTIO	Charge Weight (gram)	N	Reason	Misrun
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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/			7,776.0	7,777.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			7,788.0	7,789.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			7,862.0	7,863.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			7,873.0	7,874.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			7,917.0	7,918.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			7,962.0	7,963.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			8,038.0	8,039.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			8,082.0	8,083.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			8,128.0	8,129.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			8,150.0	8,151.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			8,163.0	8,164.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			8,174.0	8,175.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			8,258.0	8,259.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			8,264.0	8,265.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			8,320.0	8,321.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			8,342.0	8,343.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			8,408.0	8,409.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			8,445.0	8,446.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			8,482.0	8,483.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			8,504.0	8,505.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			8,586.0	8,587.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N

RECEIVED: May. 13, 2013

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/			8,596.0	8,597.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			8,638.0	8,639.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			8,652.0	8,653.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			8,722.0	8,723.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			8,809.0	8,810.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			8,830.0	8,831.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			8,838.0	8,839.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			8,860.0	8,861.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			8,872.0	8,873.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			8,896.0	8,897.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			8,952.0	8,953.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			8,970.0	8,971.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			8,996.0	8,997.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			9,030.0	9,032.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			9,052.0	9,053.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			9,068.0	9,069.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			9,075.0	9,076.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			9,092.0	9,093.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			9,139.0	9,140.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			9,152.0	9,153.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			9,209.0	9,210.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N

RECEIVED: May. 13, 2013

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/			9,218.0	9,219.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			9,243.0	9,244.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			9,259.0	9,260.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			9,270.0	9,271.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			9,280.0	9,281.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			9,296.0	9,297.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			9,316.0	9,317.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			9,338.0	9,339.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			9,364.0	9,365.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			9,424.0	9,425.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			9,438.0	9,439.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			9,469.0	9,470.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			9,480.0	9,481.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			9,496.0	9,497.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			9,547.0	9,548.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			9,574.0	9,575.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			9,592.0	9,593.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			10,294.0	10,295.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			10,322.0	10,323.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			10,340.0	10,341.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			10,354.0	10,355.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N

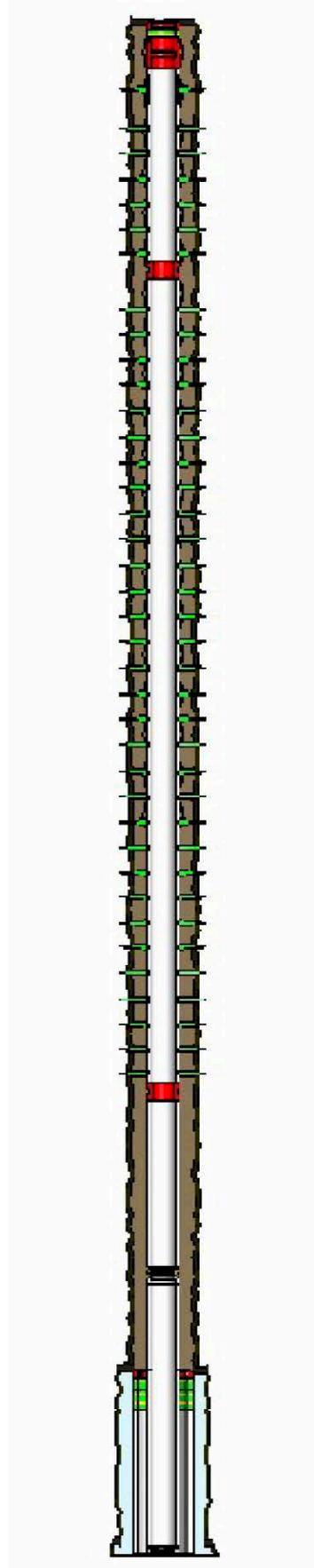
US ROCKIES REGION

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/			10,378.0	10,380.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			10,407.0	10,408.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			10,417.0	10,418.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			10,437.0	10,438.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			10,476.0	10,477.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			10,485.0	10,486.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			10,503.0	10,504.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			10,530.0	10,531.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
3/4/2013 12:00AM	MESAVERDE/			10,634.0	10,635.0	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 921-36D1CS GREEN				Spud Date: 7/13/2012				
Project: UTAH-UINTAH			Site: MORGAN STATE 921-36C PAD			Rig Name No: SWABBCO 6/6		
Event: COMPLETION			Start Date: 2/8/2013		End Date: 4/15/2013			
Active Datum: RKB @5,014.00usft (above Mean Sea Level)				UWI: NE/NW/09/S/21/E/36/0/0/26/PM/N/637/W/0/1989/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
1/22/2013	14:00 - 14:15	0.25	SUBSPR	48		P		SAFETY = JSA + BRIEF OVERVIEW OF SAFETY PRACTICES. RIG INSPECTION
	14:15 - 14:15	0.00	SUBSPR	30	A	P		WAIT FOR WELLHEADS TO BE BACK FILLED. MIRU. NDWH. NUBOP. SWIFN.
1/23/2013	7:00 - 7:15	0.25	SUBSPR	48		P		SAFETY = JSA.
	7:15 - 17:30	10.25	SUBSPR	30		P		0# ON WELL. OPEN WELL. P/U & RIH W/ 3-7/8" MILL, POBS, XN AND 134 JTS 2-3/8" L-80 TBNG. T/U ON CMT @4256'. R/U POWER SWIVEL. R/U PUMP LINES. BREAK CIRC. TEST BOP'S GOOD @ 3000#. D/O HARD CMT TO 4317' W/ 136 JTS. T/U ON DV TOOL @4137'.MILL PLUGGING W/ CHUNKS OF RUBBER. HANG BACK SWIVEL. DRAIN PUMP LINES. POOH W/ 136JTS 2-3/8" L-80 TBNG. L/D PLUGGED MILL. SWIFN.
1/24/2013	7:00 - 7:15	0.25	SUBSPR	48		P		SAFETY = JSA.
	7:15 - 17:30	10.25	SUBSPR	30		P		0# ON WELL. P/U & RIH W/ 3-7/8" MILL, BIT SUB, XN + 136 JTS 2-3/8" L-80 TBNG. T/U @ 4317' ON DV TOOL. R/U POWER SWIVEL. BREAK CIRC (CONVENTIONAL). D/O DV TOOL IN 45MIN. CIRC WELL CLEAN FOR 45MIN. CONT RIH TO PBTD @10761' W/ 339 JTS 2-3/8" L-80 TBNG. POOH WHILE L/D 140 JTS TBNG. DRAIN EQUIP. SWIFN.
1/25/2013	7:00 - 7:15	0.25	SUBSPR	48		P		SAFETY = JSA.
	7:15 - 14:00	6.75	SUBSPR	30		P		0# ON WELL. FINISH POOH WHILE L/D ALL TBNG. LOAD HOLE W/ TMAC. NDBOP. NUWH. SWI. RDMO.
NOTE: 346 JTS 2-3/8" L-80 TBNG CREDITED BACK TO WELL AND SENT TO SAMUELS YARD.								
2/8/2013	-							

Operation Summary Report

Well: MORGAN STATE 921-36D1CS GREEN		Spud Date: 7/13/2012	
Project: UTAH-UINTAH		Site: MORGAN STATE 921-36C PAD	Rig Name No: SWABBCO 6/6
Event: COMPLETION		Start Date: 2/8/2013	End Date: 4/15/2013
Active Datum: RKB @5,014.00usft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/36/0/0/26/PM/N/637/W/0/1989/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
2/27/2013	8:00 - 18:00	10.00	SUBSPR	33	C	P		<p>FILL SURFACE CSG. MIRU CAMERON QUICK TEST. PRESSURE TEST CSG & FRAC VALVES</p> <p>1ST PSI TEST T/ 9000 PSI. HELD FOR 15 MIN LOST 250 PSI.</p> <p>2ND PSI TEST T/9000 PSI. HELD FOR 15 MIN LOST 195 PSI.</p> <p>3RD PRI TEST T/ 9000 PSI. HELD FOR 15 MIN LOST 164 PSI.</p> <p>RU WL PU 4 1/2" CIBP RIH SET @ 10,748, POOH RD WL</p> <p>4TH PSI TEST T/ 8500 PSI ACTS LIKE PUMPING INTO WELL RAN OUT OF WATER FILLED TRUCK</p> <p>RU WL PU 4 1/2" CIBP SET @ 10,720 POOH RD WL</p> <p>5TH PSI TEST T/ 9000 PSI. HELD FOR 1 MIN LOST 500 PSI</p> <p>6TH PSI TEST T/ 5000 PSI, HELD FOR 1 MIN LOST 50 PSI</p> <p>RAN OUT OF WATER AGAIN,NOTE USED 750 GAL WATER TO TEST</p> <p>WELLS MOST TIMES IT ONLY TAKES 30 TO 50 GAL BLED PSI OFF WELL WAIT ON ORDERS</p> <p>NO COMMUNICATION OR MIGRATION WITH SURFACE CSG</p> <p>BLEED OFF PSI.</p> <p>PRESSURE TEST 8 5/8 X 4 1/2 TO 550 PSI HELD FOR 5 MIN</p> <p>LOST -458 PSI,BLED PSI OFF, REINSTALLED POP OFF SWIFN</p> <p>COULDN'T PUMP INTO SURFACE CASING</p> <p>NOTE: CEMENT BOND LOG LOOKS GOOD FROM DV TOOL @ 4297 TO SURFACE, BUT FROM DV TOOL TO 5700' NO CEMENT, AND FROM 5700' TO BOTTOM LOOKS GOOD, SUSPECT DV TOOL LEAKING</p>
3/5/2013	7:00 - 7:30	0.50		48		P		HSM, ROADING EQUIP.
	7:30 - 11:30	4.00		30	A	P		MIRU F/ NBU 1022-01N PAD, HAD TO CHAIN UP RIG,ND FV, NU BOPS RU FLOOR & TBG EQUIP.
	11:30 - 15:30	4.00		31	I	P		TALLY & PU 4 1/2 HD PKR & 136 JTS 23/8 L-80, SET PKR @ 4345.14' TEST TBG TO 3,000 PSI GOOD TEST, TEST CSG TO 3,000 PSI NO TEST, L/D 2 JTS SET PKR @ 4281' TEST TBG TO 3,000 PSI LOSTB 600 PSI IN 1/2 MIN. TEST CSG TO 3,000 PSI GOOD TEST. DV COLLAR @ 4295' IS LEAKING.
	15:30 - 18:00	2.50		31	I	P		UNSET PKR L/D 134 JTS 23/8 & PKR SWI, RIG DWN RIG WAS SINKING. SWI DRAIN EQUIP SDFN.
3/19/2013	11:00 - 16:30	5.50		30	A	P		MOVE TO LOCATION, BUILD UP AROUND WELL HEAD W/ PIT RUN & GRADER. RIGGED UP.

Operation Summary Report

Well: MORGAN STATE 921-36D1CS GREEN

Spud Date: 7/13/2012

Project: UTAH-UINTAH

Site: MORGAN STATE 921-36C PAD

Rig Name No: SWABBCO 6/6

Event: COMPLETION

Start Date: 2/8/2013

End Date: 4/15/2013

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

UWI: NE/NW/09/S/21/E/36/0/0/26/PM/N/637/W/0/1989/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	16:30 - 17:30	1.00		30	F	P		ND FV NU BOPS RU FLOOR & TBG EQUIP, SWI SDFN.
3/20/2013	7:00 - 7:30	0.50		48		P		HSM, PINCH POINT, WORKING W/ PATCH TOOLS
	7:30 - 11:00	3.50		31	I	P		PU 31/8 MILL, SHORT 31/8 COLLAR, 31/8 CSG SCRAPPER, X/O, 31/8 COLLAR, X/O, 6' 23/8 PUP JT, 135 JTS 23/8 L-80, WORK MILL & SCAPPER TROUGH DV AREA. L/D 1 JT POOH W 40 HAD HEAVY BLACK OIL ROLLING OUT OF HOLE, RUN BACK IN HOLE ORDERED HOT OIL TRUCK.
	11:00 - 14:30	3.50		46	E	P		WAIT ON HOT OILER & HEAT 400 BBL UPRIGHT TO 150 DEGS. CIRC HOLE W/ 70 BBLs HOT WTR TO REMOVE OIL.
	14:30 - 0:00	9.50		31	I	P		POOH W/ 134 JTS L/D MILLING ASSEMBLY. PU 20' SALT PATCH W/ RUNNING TOOLS, 2 JTS 23/8 L-80, 2' L-80 PUP JT, 132 JTS FILLING & TESTING TBG WHILE TRIPPING IN HOLE. RU CASED HOLE, RIH W/ CCL & GR, CORALATE CENTER OF PATCH IN POSITION. ACROSS DV COLLAR @ 4295'-98', RD CASED HOLE, SETTING PATCH.
3/21/2013	0:00 - 2:00	2.00		31		P		FINISH SETTING PATCH RUN TROUGH PATCH 2 TIMES, L/D JTS 23/8 SDFN.
	9:00 - 9:30	0.50		48		P		HSM, PPE, & WORKING IN THE WIND.
	9:30 - 10:30	1.00		31		P		WENT BACK TROUGH PATCH HAD 2000 LBS DRAG ONTOP OF PATCH MADE 4 PRESSURE SETTING GOT TIGHT SPOT CLEARED UP.
	10:30 - 17:00	6.50		31	I	P		L/D 135 JTS 23/8 L-80 & SETTING TOOL. PU 10 JTS CIRC OIL OFF TOP OF WELL, L/D 10 JTS, ND BOPS NU FV. RU CAMERON TEST 4 1/2 CSG TO 9,000 PSI FOR 15 MIN LOST 95 PSI, GOOD TEST, HAD TO BLEAD OFF SLOW, RU CASED HOLE RIH W/ WEIGHT BAR CCL & 3.60 OD GAUGE RING TO MAKE DUMMY RUN TROUGH PATCH. OK POOH RD WL SWI SDFN.
								TOP OF PATCH @ 4285' DV COLLAR @ 4295-98' BTM PATCH @ 4304'

Operation Summary Report

Well: MORGAN STATE 921-36D1CS GREEN		Spud Date: 7/13/2012	
Project: UTAH-UINTAH		Site: MORGAN STATE 921-36C PAD	Rig Name No: SWABBCO 6/6
Event: COMPLETION		Start Date: 2/8/2013	End Date: 4/15/2013
Active Datum: RKB @5,014.00usft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/36/0/0/26/PM/N/637/W/0/1989/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
4/1/2013	9:15 - 18:00	8.75	FRAC	36	B	P		<p>FRAC STG 1)WHP 1160 PSI, BRK 4251 PSI @ 4.9 BPM. ISIP 3298 PSI, FG. 0.75 ISIP 3684 PSI, FG. 0.79, NPI 386 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. 90 DEG PHAZING. RIH SET CBP @ 10,390' P/U PERF AS PER DESIGN. POOH, XO T/ FRAC.</p> <p>FRAC STG 2)WHP 2729 PSI, BRK 4984 PSI @ 10.1 BPM. ISIP 3641 PSI, FG. 0.79 ISIP 3864 PSI, FG. 0.81, NPI 223 PSI. SWI, XO T/ WL.</p> <p>PERF STG 3)PU 4 1/2 8K BAKER CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 9623' P/U PERF AS PER DESIGN. POOH, XO T/ FRAC.</p> <p>FRAC STG 3)WHP 1753 PSI, BRK 3020 PSI @ 4.6 BPM. ISIP 2191 PSI, FG. 0.67 ISIP 2886 PSI, FG. 0.74, NPI 695 PSI. SWI, XO T/ WL.</p> <p>PERF STG 4)PU 4 1/2 8K BAKER CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 9395' P/U PERF AS PER DISIGN. POOH, XO T/ FRAC.</p> <p>FRAC STG 4)WHP 2410 PSI, BRK 4052 PSI @ 6.9 BPM. ISIP 2625 PSI, FG. 0.72 ISIP 2827 PSI, FG. 0.74, NPI 202 PSI. SWIFN.</p>

Operation Summary Report

Well: MORGAN STATE 921-36D1CS GREEN		Spud Date: 7/13/2012	
Project: UTAH-UINTAH		Site: MORGAN STATE 921-36C PAD	Rig Name No: SWABBCO 6/6
Event: COMPLETION		Start Date: 2/8/2013	End Date: 4/15/2013
Active Datum: RKB @5,014.00usft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/36/0/0/26/PM/N/637/W/0/1989/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
4/2/2013	8:00 - 18:00	10.00	FRAC	36	B	P		<p>PERF STG 5)PU 4 1/2 8K BAKER CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 9229' P/U PERF AS PER DESIGN.</p> <p>FRAC STG 5)WHP 1120 PSI, BRK 2946 PSI @ 4.4 BPM. ISIP 2284 PSI, FG. 0.69 ISIP 2650 PSI, FG. 0.73, NPI 366 PSI. SWI, XO T/ WL.</p> <p>PERF STG 6)PU 4 1/2 8K BAKER CBP & 3 1/8 EXP GUN, 23GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 9042' P/U PERF AS PER DESIGN. POOH, XO T/ FRAC.</p> <p>FRAC STG 6)WHP 1127 PSI, BRK 2633 PSI @ 4.6 BPM. ISIP 1650 PSI, FG. 0.62 ISIP 2398 PSI, FG. 0.71, NPI 748 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 @ 8849' P.U PERF AS PER DESIGN. POOH, XO T/ FRAC.</p> <p>FRAC STG 7)WHP 1674 PSI, BRK 2668 PSI @ 8.4 BPM. ISIP 1836 PSI, FG. 0.65 ISIP 2474 PSI, FG. 0.72, NPI 638 PSI. SWI, XO T/ WL.</p> <p>PERF STG 8)PU 4 1/2 8K BAKER CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 8535' P/U PERF AS PER DESIGN. POOH, XO T/ FRAC.</p> <p>FRAC STG 8)WHP 1480 PSI, BRK 2771 PSI @ 4.6 BPM. ISIP 1917 PSI, FG. 0.67 ISIP 2694 PSI, FG. 0.76, NPI 777 PSI. SWI, XO T/ WL.</p> <p>PERF STG 9)PU 4 1/2 8K BAKER CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 8205' P/U PERF AS PER DESIGN. POOH.XO T/ FRAC.</p> <p>FRAC STG 9)WHP 1237 PSI, BRK 2304 PSI @ 3.8 BPM. ISIP 1376 PSI, FG. 0.61 ISIP 2566 PSI, FG. 0.76, NPI 1190 PSI. SWIFN.</p>
4/3/2013	8:00 - 18:00	10.00	FRAC	36	B	P		<p>PERF STG 10)PU 4 1/2 8K BAKER CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7904' P/U PERF AS PER DESIGN.</p> <p>FRAC STG 10)WHP 1509 PSI, BRK 2406 PSI @ 5.1 BPM. ISIP 1819 PSI, FG. 0.67 ISIP 2502 PSI, FG. 0.76, NPI 683 PSI. SWI, XO T/ WL.</p> <p>PU 4 1/2 8K BAKER CBP. RIH SET KILL PLUG @ 7596'. POOH, DONE FRACING THIS WELL.</p> <p>TOTAL SAND = 302,021 LBS TOTAL CLFL = 13,714 BBS</p>

Operation Summary Report

Well: MORGAN STATE 921-36D1CS GREEN				Spud Date: 7/13/2012				
Project: UTAH-UINTAH			Site: MORGAN STATE 921-36C PAD			Rig Name No: SWABBCO 6/6		
Event: COMPLETION			Start Date: 2/8/2013		End Date: 4/15/2013			
Active Datum: RKB @5,014.00usft (above Mean Sea Level)				UWI: NE/NW/0/9/S/21/E/36/0/0/26/PM/N/637/W/0/1989/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
4/12/2013	13:00 - 17:00	4.00	DRLOUT	31		P		MIRU. NDWH. NUBOP. RIH W/ 113JTS 2-3/8" J-55 TBNG + XN+POBS + 3-5/8" BIT. SWIFN. LEAVE EOT @ 3571'
4/15/2013	7:00 - 7:15	0.25	DRLOUT	48		P		SAFETY = JSA.

Operation Summary Report

Well: MORGAN STATE 921-36D1CS GREEN

Spud Date: 7/13/2012

Project: UTAH-UINTAH

Site: MORGAN STATE 921-36C PAD

Rig Name No: SWABBCO 6/6

Event: COMPLETION

Start Date: 2/8/2013

End Date: 4/15/2013

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

UWI: NE/NW/0/9/S/21/E/36/0/0/26/PM/N/637/W/0/1989/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 21:00	13.75	DRLOUT	31		P		<p>0# ON WELL. CONT P/U & RIH W/ 2-3/8" J-55 / L-80 TBNG. T/U ON KILL CBP @7596' W/ 240 JTS TBNG. R/U POWER SWIVEL. LOAD HOLE W/ TMAC. PRESSURE TEST BOP'S GOOD @ 3000#. BREAK CIRC. BEGIN D/O AS FOLLOWS:</p> <p>CBP #1) DRL OUT BAKER 8K CBP @ 7596' IN 11MIN. 400#'S DIFF. PSI. RIH. C/O 30' OF SND. FCP = 10 PSI.</p> <p>CBP #2) DRL OUT BAKER 8K CBP @ 7904' IN 9MIN. 300#'S DIFF. PSI. RIH. C/O 20' OF SND. FCP = 175 PSI.</p> <p>CBP #3) DRL OUT BAKER 8K CBP @ 8205' IN 22MIN. 400#'S DIFF. PSI. RIH. C/O 30' OF SND. FCP = 550 PSI. WORK STUCK PIPE FOR 3HRS. CAME FREE.</p> <p>CBP #4) DRL OUT BAKER 8K CBP @ 8535' IN 17MIN. 1200#'S DIFF. PSI. RIH. C/O 25' OF SND. FCP = 1400 PSI.</p> <p>CBP #5) DRL OUT BAKER 8K CBP @ 8849' IN 16MIN. 100#'S DIFF. PSI. RIH. C/O 30' OF SND. FCP = 750 PSI.</p> <p>CBP #6) DRL OUT BAKER 8K CBP @ 9042' IN 19MIN. 200#'S DIFF. PSI. RIH. C/O 50' OF SND. FCP = 950 PSI.</p> <p>CBP #7) DRL OUT BAKER 8K CBP @ 9229' IN 18MIN. 150#'S DIFF. PSI. RIH. C/O 30' OF SND. FCP = 450 PSI.</p> <p>CBP #8) DRL OUT BAKER 8K CBP @ 9395' IN 23MIN. 100#'S DIFF. PSI. RIH. C/O 50' OF SND. FCP = 950 PSI.</p> <p>CBP #9) DRL OUT BAKER 8K CBP @ 9623' IN 21MIN. 100#'S DIFF. PSI. RIH. C/O 50' OF SND. FCP = 950 PSI.</p> <p>CBP #10) DRL OUT BAKER 8K CBP @ 10,390' IN 20MIN. 850#'S DIFF. PSI. RIH & C/O 70' OF SND TO PBTD @10,763' W/ 339 JTS 2-3/8" TBNG. CIRC WELL CLEAN. FCP = 1150 PSI. L/D 15 JTS 2-3/8" L-80 TBNG. LAND WELL ON HANGER. R/D FLOOR. NDBOP. NUWH. PRESSURE TEST FLOWLINES GOOD @3000#. DROP BALL AND PUMP OFF BIT @1600#. WELL LANDED AS FOLLOWS:</p> <p>KB= 26.00' HANGER= .83'</p>

Operation Summary Report

Well: MORGAN STATE 921-36D1CS GREEN		Spud Date: 7/13/2012	
Project: UTAH-UINTAH		Site: MORGAN STATE 921-36C PAD	Rig Name No: SWABBCO 6/6
Event: COMPLETION		Start Date: 2/8/2013	End Date: 4/15/2013
Active Datum: RKB @5,014.00usft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/36/0/0/26/PM/N/637/W/0/1989/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
								150JTS 2-3/8" J-55 TBNG = 4740.86' 2-3/8" L-80 PUP JT = 6.00' 173JTS 2-3/8" L-80 TBNG =5457.58' XN / POBS= 2.20' EOT @ 10,233.47' TOTAL FRAC LOAD PUMPED = 13,714 BBLS RIG RECOVERED = 1900 BBLS TWLTR= 11,814 BBLS. WELL ON SALES @2300 HRS. BEFORE WELL WAS BROUGHT ON LINE SICP= 2650# SITP= 2300#. WELL TURNED TO SALES @ 2300 HR ON 4/15/2013. 2900 MCFD, 1920BWPD, FCP 2600#, FTP 2360#, 20/64" CK.
	21:00 - 21:00	0.00	DRLOUT	50				

Project: UTAH- UTM (feet), NAD27, Zone 12N
 Site: UINTAH MORGAN STATE 921-36C PAD
 Well: MORGAN STATE 921-36D1CS
 Wellbore: MORGAN STATE 921-36D1CS
 Section: NE ¼ NW ¼ OF Sec.36-T9S-R21E
 SHL:
 Design: MORGAN STATE 921-36D1CS (wp01)
 Latitude: 39.998027
 Longitude: -109.501699
 GL: 4988.00
 KB: 26' RKB + 4988' GL @ 5014.00ft (H&P 298)

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1376.00	1398.28	GREEN RIVER
1680.00	1725.77	BIRDS NEST
2190.00	2272.88	MAHOGANY MARKER
4647.00	4821.17	WASATCH
5254.00	5428.50	INTERCEPT
7343.00	7517.52	MESAVERDE
9551.00	9725.55	SEGO
9599.00	9773.55	CASTLEGATE
10032.00	10206.55	BLACKHAWK



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WELL DETAILS: MORGAN STATE 921-36D1CS

+N/-S	+E/-W	Northing	Ground Level: Easting	4988.00 Latitude	Longitude	Slot
0.00	0.00	14528853.05	2060048.80	39.998027	-109.501699	

CASING DETAILS

TVD	MD	Name	Size
2645.76	2757.11	8 5/8"	8-5/8



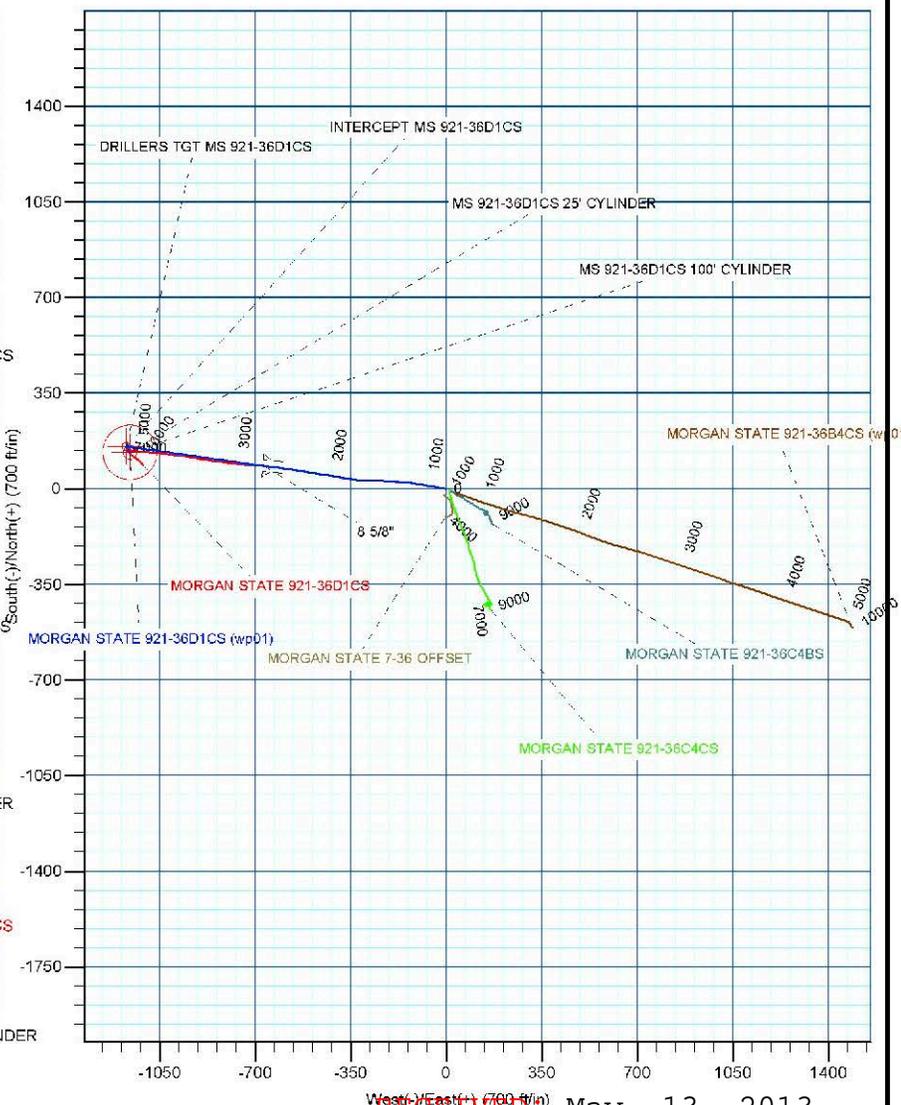
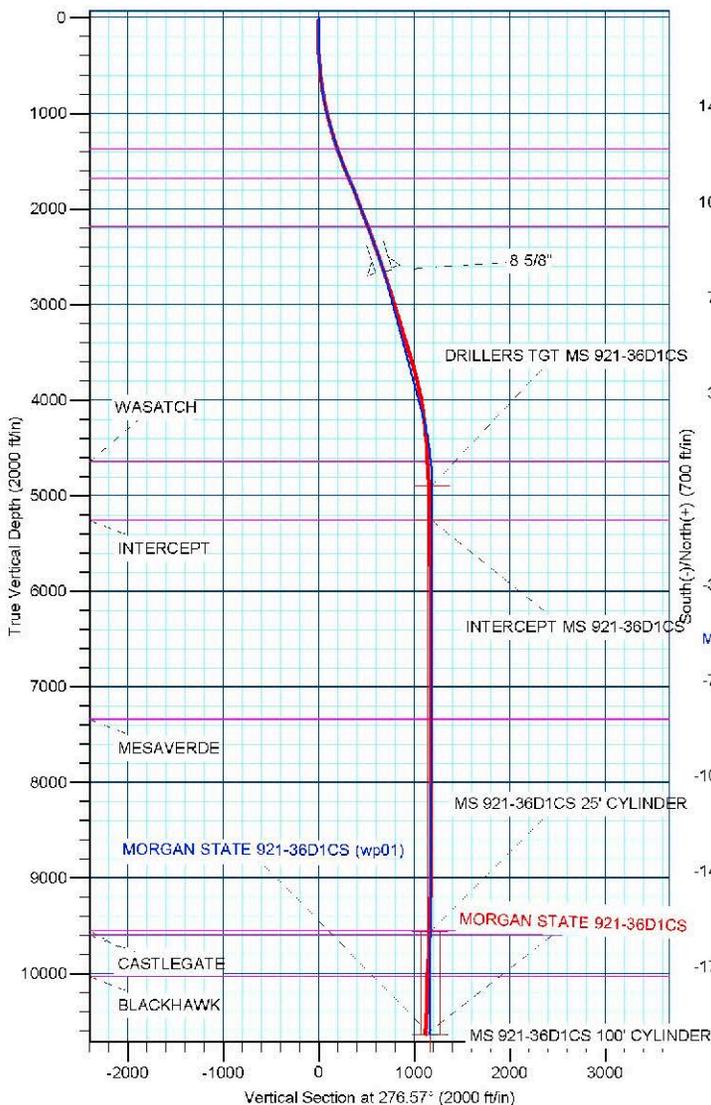
Azimuths to True North
 Magnetic North: 10.90°
 Magnetic Field
 Strength: 52190.95nT
 Dip Angle: 65.83°
 Date: 10/29/2012
 Model: IGRF2010

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
DRILLERS TGT MS 921-36D1CS	4900.00	155.50	-1174.00	14528988.79	2058872.35	39.998454	-109.505890	Circle (Radius: 15.00)
INTERCEPT MS 921-36D1CS	5254.00	154.31	-1173.28	14528987.61	2058873.09	39.998451	-109.505887	Point
MS 921-36D1CS 25' CYLINDER	9558.00	133.69	-1160.82	14528967.21	2058885.89	39.998394	-109.505843	Circle (Radius: 25.00)
MS 921-36D1CS 100' CYLINDER	10639.00	133.69	-1160.82	14528967.21	2058885.89	39.998394	-109.505843	Circle (Radius: 100.00)

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
2736.00	18.11	275.14	2625.68	84.12	-664.92	0.00	0.00	670.18
2894.91	15.05	278.12	2777.97	89.25	-709.95	2.00	165.89	715.50
4322.15	15.05	278.12	4156.27	141.62	-1076.76	0.00	0.00	1085.89
5074.50	0.00	0.00	4900.00	155.50	-1174.00	2.00	180.00	1184.08
5159.92	0.26	148.86	4985.43	155.34	-1173.90	0.30	148.86	1183.97
10813.56	0.26	148.86	10639.00	133.69	-1160.82	0.00	0.00	1168.50





Weatherford®

US ROCKIES REGION PLANNING

**UTAH - UTM (feet), NAD27, Zone 12N
UINTAH_MORGAN STATE 921-36C PAD
MORGAN STATE 921-36D1CS**

MORGAN STATE 921-36D1CS

Design: MORGAN STATE 921-36D1CS

Standard Survey Report

31 December, 2012





Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well MORGAN STATE 921-36D1CS
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 921-36D1CS	North Reference:	True
Wellbore:	MORGAN STATE 921-36D1CS	Survey Calculation Method:	Minimum Curvature
Design:	MORGAN STATE 921-36D1CS	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 921-36D1CS					
Well Position	+N/-S	0.00 ft	Northing:	14,528,853.05 usft	Latitude:	39.998027
	+E/-W	0.00 ft	Easting:	2,060,048.79 usft	Longitude:	-109.501699
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,988.00 ft

Wellbore	MORGAN STATE 921-36D1CS				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/29/2012	10.90	65.83	52,191

Design	MORGAN STATE 921-36D1CS				
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 (°)	
	77.00	0.00	0.00	274.52	

Survey Program	Date	12/31/2012			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
248.00	2,736.00	Survey #1 (MORGAN STATE 921-36D1CS)	MWD	MWD - STANDARD	
2,845.00	10,815.00	Survey #2 (MORGAN STATE 921-36D1CS)	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	0.00
248.00	0.09	128.80	248.00	-0.11	0.14	-0.15	0.04	0.04	0.00	
339.00	1.06	259.76	338.99	-0.31	-0.63	0.61	1.23	1.07	143.91	
429.00	2.81	273.82	428.94	-0.31	-3.65	3.62	2.00	1.94	15.62	
522.00	5.01	278.04	521.72	0.41	-9.95	9.95	2.38	2.37	4.54	
617.00	6.51	281.73	616.24	2.09	-19.33	19.43	1.63	1.58	3.88	
711.00	8.00	278.83	709.48	4.17	-31.01	31.24	1.63	1.59	-3.09	
804.00	9.41	280.42	801.41	6.54	-44.88	45.26	1.54	1.52	1.71	
900.00	11.11	280.76	895.87	9.69	-61.69	62.26	1.77	1.77	0.35	
993.00	13.63	279.54	986.70	13.18	-81.30	82.09	2.72	2.71	-1.31	



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well MORGAN STATE 921-36D1CS
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 921-36D1CS	North Reference:	True
Wellbore:	MORGAN STATE 921-36D1CS	Survey Calculation Method:	Minimum Curvature
Design:	MORGAN STATE 921-36D1CS	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	14.60	278.66	1,077.86	16.80	-103.94	104.94	1.06	1.03	-0.94	
1,183.00	16.18	278.22	1,170.42	20.53	-129.14	130.35	1.65	1.65	-0.46	
1,279.00	16.71	275.58	1,262.49	23.79	-156.11	157.50	0.95	0.55	-2.75	
1,372.00	18.55	273.91	1,351.12	26.10	-184.18	185.66	2.05	1.98	-1.80	
1,466.00	20.40	273.12	1,439.74	28.01	-215.46	217.00	1.99	1.97	-0.84	
1,557.00	21.81	270.92	1,524.64	29.14	-248.20	249.73	1.78	1.55	-2.42	
1,651.00	23.57	272.59	1,611.36	30.27	-284.44	285.94	1.99	1.87	1.78	
1,745.00	23.04	274.79	1,697.69	32.66	-321.54	323.12	1.08	-0.56	2.34	
1,837.00	21.46	277.95	1,782.84	36.49	-356.16	357.92	2.15	-1.72	3.43	
1,932.00	20.66	279.01	1,871.49	41.52	-389.92	391.98	0.93	-0.84	1.12	
2,026.00	21.37	280.24	1,959.24	47.16	-423.15	425.55	0.89	0.76	1.31	
2,121.00	20.93	278.13	2,047.84	52.63	-456.98	459.71	0.93	-0.46	-2.22	
2,214.00	20.49	280.50	2,134.84	57.95	-489.43	492.48	1.02	-0.47	2.55	
2,308.00	20.40	279.45	2,222.91	63.64	-521.77	525.16	0.40	-0.10	-1.12	
2,403.00	20.49	277.43	2,311.93	68.51	-554.59	558.26	0.75	0.09	-2.13	
2,496.00	20.84	277.87	2,398.95	72.88	-587.12	591.03	0.41	0.38	0.47	
2,591.00	19.08	280.15	2,488.24	77.93	-619.14	623.36	2.03	-1.85	2.40	
2,736.00	18.11	275.14	2,625.68	84.12	-664.92	669.48	1.29	-0.67	-3.46	
TIE ON TO LAST SDI SURVEY										
2,845.00	17.50	272.92	2,729.46	86.48	-698.16	702.81	0.84	-0.56	-2.04	
FIRST WFT MWD SURVEY										
2,939.00	17.17	273.08	2,819.19	87.94	-726.13	730.80	0.35	-0.35	0.17	
3,034.00	16.87	274.10	2,910.03	89.68	-753.88	758.61	0.45	-0.32	1.07	
3,128.00	17.50	276.55	2,999.83	92.27	-781.53	786.37	1.02	0.67	2.61	
3,223.00	18.44	279.42	3,090.20	96.36	-810.54	815.62	1.36	0.99	3.02	
3,318.00	18.75	278.17	3,180.24	100.99	-840.48	845.82	0.53	0.33	-1.32	
3,412.00	17.31	276.42	3,269.62	104.70	-869.33	874.88	1.64	-1.53	-1.86	
3,506.00	16.81	278.92	3,359.48	108.37	-896.66	902.41	0.94	-0.53	2.66	
3,601.00	16.25	281.55	3,450.56	113.16	-923.25	929.30	0.98	-0.59	2.77	
3,696.00	17.19	280.42	3,541.54	118.36	-950.08	956.45	1.05	0.99	-1.19	
3,790.00	16.69	276.80	3,631.47	122.47	-977.15	983.76	1.24	-0.53	-3.85	
3,885.00	15.19	274.67	3,722.81	125.10	-1,003.10	1,009.84	1.69	-1.58	-2.24	
3,980.00	14.19	275.92	3,814.70	127.31	-1,027.09	1,033.93	1.10	-1.05	1.32	
4,074.00	12.13	278.30	3,906.23	129.93	-1,048.32	1,055.30	2.27	-2.19	2.53	
4,169.00	9.81	271.67	3,999.49	131.60	-1,066.29	1,073.35	2.78	-2.44	-6.98	
4,263.00	8.50	275.55	4,092.29	132.51	-1,081.21	1,088.29	1.54	-1.39	4.13	
4,358.00	7.25	274.92	4,186.40	133.70	-1,094.17	1,101.31	1.32	-1.32	-0.66	
4,452.00	5.81	275.55	4,279.78	134.67	-1,104.82	1,111.99	1.53	-1.53	0.67	
4,547.00	5.38	281.92	4,374.33	136.06	-1,113.96	1,121.22	0.79	-0.45	6.71	
4,641.00	4.19	280.80	4,468.00	137.61	-1,121.65	1,129.00	1.27	-1.27	-1.19	
4,736.00	3.25	275.67	4,562.80	138.53	-1,127.73	1,135.14	1.05	-0.99	-5.40	
4,830.00	2.63	277.05	4,656.68	139.05	-1,132.53	1,139.96	0.66	-0.66	1.47	
4,925.00	2.38	269.17	4,751.59	139.29	-1,136.66	1,144.10	0.45	-0.26	-8.29	



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well MORGAN STATE 921-36D1CS
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 921-36D1CS	North Reference:	True
Wellbore:	MORGAN STATE 921-36D1CS	Survey Calculation Method:	Minimum Curvature
Design:	MORGAN STATE 921-36D1CS	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)	
5,020.00	1.75	279.80	4,846.53	139.51	-1,140.06	1,147.51	0.77	-0.66	11.19	
5,114.00	1.50	271.42	4,940.49	139.79	-1,142.71	1,150.17	0.37	-0.27	-8.91	
5,209.00	1.58	272.48	5,035.45	139.87	-1,145.26	1,152.72	0.09	0.08	1.12	
5,303.00	1.44	268.30	5,129.42	139.90	-1,147.74	1,155.19	0.19	-0.15	-4.45	
5,397.00	1.31	249.67	5,223.39	139.49	-1,149.92	1,157.34	0.49	-0.14	-19.82	
5,492.00	1.13	245.55	5,318.37	138.72	-1,151.79	1,159.14	0.21	-0.19	-4.34	
5,587.00	0.94	253.92	5,413.36	138.12	-1,153.40	1,160.69	0.26	-0.20	8.81	
5,682.00	0.81	229.30	5,508.35	137.46	-1,154.65	1,161.90	0.41	-0.14	-25.92	
5,775.00	0.75	228.42	5,601.34	136.63	-1,155.61	1,162.78	0.07	-0.06	-0.95	
5,870.00	1.69	331.55	5,696.32	137.45	-1,156.74	1,163.97	2.10	0.99	108.56	
5,965.00	1.63	332.30	5,791.28	139.88	-1,158.04	1,165.46	0.07	-0.06	0.79	
6,059.00	2.25	329.92	5,885.23	142.66	-1,159.58	1,167.22	0.66	0.66	-2.53	
6,154.00	2.13	325.05	5,980.16	145.72	-1,161.53	1,169.40	0.23	-0.13	-5.13	
6,238.00	1.63	325.67	6,064.11	147.99	-1,163.10	1,171.14	0.60	-0.60	0.74	
6,343.00	1.44	321.67	6,169.08	150.25	-1,164.76	1,172.97	0.21	-0.18	-3.81	
6,438.00	0.94	330.17	6,264.06	151.87	-1,165.88	1,174.23	0.56	-0.53	8.95	
6,532.00	0.75	318.80	6,358.05	153.00	-1,166.67	1,175.10	0.27	-0.20	-12.10	
6,627.00	0.75	290.92	6,453.04	153.69	-1,167.66	1,176.14	0.38	0.00	-29.35	
6,721.00	0.69	282.55	6,547.03	154.03	-1,168.79	1,177.29	0.13	-0.06	-8.90	
6,815.00	0.44	244.42	6,641.03	154.00	-1,169.67	1,178.17	0.47	-0.27	-40.56	
6,910.00	0.38	237.67	6,736.02	153.67	-1,170.26	1,178.73	0.08	-0.06	-7.11	
7,004.00	0.50	230.67	6,830.02	153.25	-1,170.84	1,179.28	0.14	0.13	-7.45	
7,099.00	0.56	196.67	6,925.02	152.54	-1,171.30	1,179.68	0.33	0.06	-35.79	
7,193.00	0.70	177.40	7,019.01	151.52	-1,171.40	1,179.70	0.27	0.15	-20.50	
7,288.00	0.75	198.67	7,114.00	150.36	-1,171.58	1,179.78	0.29	0.05	22.39	
7,382.00	0.75	195.80	7,208.00	149.18	-1,171.94	1,180.05	0.04	0.00	-3.05	
7,477.00	0.94	179.04	7,302.99	147.80	-1,172.10	1,180.10	0.33	0.20	-17.64	
7,571.00	0.94	186.92	7,396.97	146.27	-1,172.18	1,180.06	0.14	0.00	8.38	
7,666.00	1.06	179.92	7,491.96	144.62	-1,172.27	1,180.02	0.18	0.13	-7.37	
7,760.00	0.81	340.05	7,585.95	144.37	-1,172.50	1,180.23	1.96	-0.27	170.35	
7,855.00	0.19	246.55	7,680.95	144.94	-1,172.87	1,180.64	0.89	-0.65	-98.42	
7,949.00	0.31	197.80	7,774.95	144.63	-1,173.09	1,180.84	0.25	0.13	-51.86	
8,043.00	0.69	178.55	7,868.95	143.83	-1,173.15	1,180.84	0.44	0.40	-20.48	
8,138.00	1.25	182.42	7,963.93	142.22	-1,173.18	1,180.74	0.59	0.59	4.07	
8,232.00	0.31	243.55	8,057.92	141.08	-1,173.45	1,180.92	1.21	-1.00	65.03	
8,327.00	0.31	178.17	8,152.92	140.71	-1,173.68	1,181.11	0.35	0.00	-68.82	
8,422.00	0.75	177.67	8,247.92	139.83	-1,173.64	1,181.01	0.46	0.46	-0.53	
8,516.00	0.19	55.05	8,341.92	139.31	-1,173.49	1,180.82	0.92	-0.60	-130.45	
8,610.00	0.19	126.92	8,435.92	139.30	-1,173.24	1,180.57	0.24	0.00	76.46	
8,705.00	0.63	138.55	8,530.91	138.82	-1,172.77	1,180.06	0.47	0.46	12.24	
8,799.00	0.88	141.92	8,624.90	137.86	-1,171.98	1,179.20	0.27	0.27	3.59	
8,894.00	0.94	140.55	8,719.89	136.68	-1,171.03	1,178.16	0.07	0.06	-1.44	
8,988.00	1.38	136.05	8,813.87	135.27	-1,169.76	1,176.78	0.48	0.47	-4.79	
9,083.00	1.63	128.55	8,908.84	133.61	-1,167.91	1,174.80	0.33	0.26	-7.89	



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well MORGAN STATE 921-36D1CS
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 921-36D1CS	North Reference:	True
Wellbore:	MORGAN STATE 921-36D1CS	Survey Calculation Method:	Minimum Curvature
Design:	MORGAN STATE 921-36D1CS	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)
9,177.00	1.75	134.17	9,002.80	131.78	-1,165.83	1,172.59	0.22	0.13	5.98
9,271.00	2.25	132.30	9,096.74	129.53	-1,163.44	1,170.03	0.54	0.53	-1.99
9,366.00	2.44	131.05	9,191.66	126.95	-1,160.53	1,166.93	0.21	0.20	-1.32
9,460.00	2.25	120.30	9,285.58	124.71	-1,157.43	1,163.66	0.51	-0.20	-11.44
9,554.00	2.31	124.92	9,379.51	122.69	-1,154.28	1,160.36	0.21	0.06	4.91
9,649.00	2.38	125.42	9,474.43	120.45	-1,151.11	1,157.02	0.08	0.07	0.53
9,743.00	2.44	136.42	9,568.35	117.87	-1,148.14	1,153.86	0.50	0.06	11.70
10,027.00	2.31	122.30	9,852.11	110.43	-1,139.13	1,144.29	0.21	-0.05	-4.97
10,310.00	2.44	127.80	10,134.86	103.69	-1,129.55	1,134.21	0.09	0.05	1.94
10,594.00	2.50	138.17	10,418.60	95.37	-1,120.64	1,124.67	0.16	0.02	3.65
10,750.00	2.50	139.55	10,574.45	90.25	-1,116.17	1,119.81	0.04	0.00	0.88
LAST WFT MWD SURVEY									
10,815.00	2.50	139.55	10,639.39	88.09	-1,114.33	1,117.80	0.00	0.00	0.00
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 921-36D1CS
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	9. API NUMBER: 43047522750000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0637 FNL 1989 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 checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 1/12/2016	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input checked="" type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input 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, LP respectfully requests to test the Morgan State 921-36D1CS well for a possible casing leak and repair the casing if a leak is found. Please see the attached procedure for details. Thank you.

Approved by the
 January 11, 2016
 Oil, Gas and Mining

Date: _____

By: *D. K. Duff*

NAME (PLEASE PRINT) Kristina Geno	PHONE NUMBER 720 929-6824	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 1/11/2016	



Morgan State 921-36D1CS

Workover Purpose: Possible Casing Integrity Failure

Morgan State 921-36C Pad

Sec. 36 9S 21E

Uintah County, UT

Date: 1-8-2016

Workorder #:

CONTACT INFORMATION:

VERNAL IOC	IOC	435-187-9751
FOREMAN	Ron Allred	435-828-6460
MECHANICAL LEAD	John Young	435-828-7548
LEAD OPERATOR	Clay Brown	435-828-8693
OPERATOR	Morgan Oveson	435-828-6221
OPERATOR	Kerry Brown	435-828-6035
ENGINEER	Edward Wolfram	435-828-6463
COMPLETIONS SUPERVISOR	Brad Burman	435-828-8006
COMPLETIONS SUPERVISOR	Jeff Samuels	435 781-7046
Nalco Champion Chemical	Tyler Severe	435-299-2189
Baker Hughes Upstream Chemical	Ben Buckley	435-401-8428



REFERENCE ELEVATIONS: 4,988' GL; 5,014' KB

TD: 10,815' MD KB; **PBTD:** 10,763' MD KB

Note: All depths listed in feet MD from KB.

SURFACE CASING: 8-5/8" 28 lb/ft J-55 @ 2,774'

SURFACE BORE HOLE: 12.25" @ 2,640'

PRODUCTION CASING: 4-1/2" 11.6 lb/ft P-110 LT&C @ 10,809'

Float Collar: 10,764' MD

Shoe: 10,808' MD

PRODUCTION HOLE: 7.875" @ 10,817'

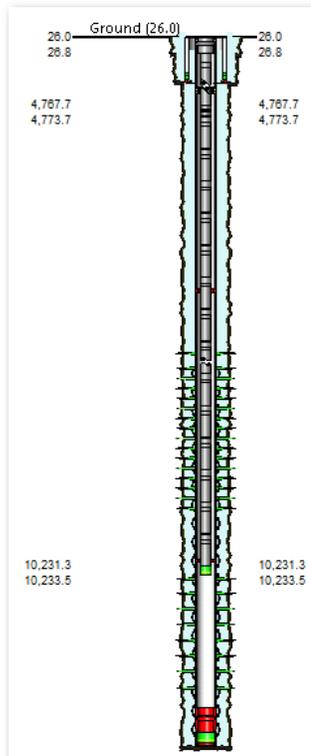
PRODUCTION TUBING: 2-3/8" 4.7 lb/ft J-55 @ 4,774' (150 joints)

TBG PUP @ 4768-4774'

2-3/8" 4.7 lb/ft L-80 @ 4,774' to 10,233' (173 joints)

Tubing Installed: 4/15/2013

Days to Failure: N/A.





Well Name:	MORGAN STATE 921-36D1CS	Field Name:	GNB_NATURAL BUTTES	TD:	10815	ST#:	00
Wellbore Name:	MORGAN STATE 921-36D1CS	Lat:	39.998027	TVD:	10639	Working Interest:	100.00
WINS No:	E9503	Long:	-109.501699	PBTD:	10763	Ground Elevation:	4,988.00
API No:	4304752275	Spud Date:	07/13/2012	PB TVD:	10589	KB Height:	5014
State:	UTAH	TD Date:	12/26/2012	Target Formation: BLACKHAWK			
County:	UINTAH	Location Description: NE NW 36 9S 21E 637' FNL 1,989' FWL					

CASING/TUBING/WELLBORE EQUIPMENT DATA														
TUBULARS	Tool Type	Joints	Size	Weight	Grade	Thread	Top D	Btm D	Burst	Collapse	Capacity	Length	ID	Drift ID
SURFACE CASING														
	Casing	61	8.625	28.00	J55	8RD LTC	26	2728				2,701.89	0.000	0.000
	Baffle	1	8.625	0.00		8RD LTC	2728	2728				0.20	0.000	0.000
	Shoe Joint	1	8.625	28.00	J55	8RD LTC	2728	2773				44.51	0.000	0.000
	Casing Float Shoe	1	8.625	0.00		8RD LTC	2773	2774				1.50	0.000	0.000
PRODUCTION CASING														
	Casing	1	4.500	11.60	13Cr-110	DQX	26	30				4.00	4.000	0.000
	Casing	96	4.500	11.60	HCP-110	DQX	30	4298				4,267.57	4.000	0.000
	Crossover	1	4.500	11.60	HCP-110	D LTC X D	4298	4318				20.62	4.000	0.000
	Cement Stage Tool	1	4.500	11.60	13Cr-110	8RD LTC	4318	4321				3.00	4.000	0.000
	Casing	74	4.500	11.60	HCP-110	8RD LTC	4321	7479				3,157.86	4.000	0.000
	Pup Joint	1	4.500	11.60	HCP-110	8RD LTC	7479	7501				21.91	4.000	0.000
	Casing	62	4.500	11.60	HCP-110	8RD LTC	7501	10179				2,677.60	4.000	0.000
	Pup Joint	1	4.500	11.60	HCP-110	8RD LTC	10179	10200				21.81	4.000	0.000
	Casing	13	4.500	11.60	HCP-110	8RD LTC	10200	10763				562.21	4.000	0.000
	Float Collar	1	4.500	11.60	HCP-110	8RD LTC	10763	10764				1.00	4.000	0.000
	Shoe Joint	1	4.500	11.60	HCP-110	8RD LTC	10764	10808				44.39	4.000	0.000
	Casing Shoe	1	4.500	11.60	HCP-110	8RD LTC	10808	10809				1.00	4.000	0.000
PRODUCTION TUBING														
	Tubing Hanger	1	4.125				26	27				0.83	2.375	
	Tubing	150	2.375	4.70	J-55	8RD EUE	27	4768				4,740.86	1.901	
	Tubing Pup Joint	1	2.375	4.70	J-55	8RD EUE	4768	4774				6.00	1.901	
	Tubing	173	2.375	4.70	L-80	8RD EUE	4774	10231				5,457.58	1.901	
	XN Profile Nipple	1	2.375				10231	10233				2.20	1.875	

CEMENT INFORMATION								
CEMENT JOBS	Stage	Cement Jobs	Sacks	Returns	Displ. Fluid	Top D	Btm D	cbl
SURFACE CASING								
	PRIM CMT 1ST STAGE	TOP OUT PREMIUM	475					No
	PRIM CMT 1ST STAGE	DISPLACEMWATER						No
	PRIM CMT 1ST STAGE	LEAD PREMIUM	350			17	1,922	No
	PRIM CMT 1ST STAGE	TAIL PREMIUM	200			1,922	2,792	No
PRODUCTION CASING								
	PRIM CMT 1ST STAGE	TAIL FRESH WATER	600			760	10,809	Yes
	PRIM CMT 1ST STAGE	LEAD FRESH WATER	1600			760	10,809	Yes

FORMATION TOPS					PUMP EQUIPMENT	
Strat Unit	Formation	MD Top	MD Base	Comments	Type	Description
	GREEN RIVER	1,476				
	BIRDS NEST	1,829				
	MAHOGANY MARKER	2,268				
	WASATCH	4,853	7,611			
	MESAVERDE	7,611	10,815			



PERFORATIONS											
Date	Formation	Zone	Top	Btm	SPF	No. Holes	Diameter	Phasing	Reason	Status	Comments
03/04/2013	MESAVERDE		7646	7648	4	8	0.36	90	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		7776	7777	4	4	0.36	90	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		7788	7789	4	4	0.36	90	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		7862	7863	4	4	0.36	90	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		7873	7874	4	4	0.36	90	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		7917	7918	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		7962	7963	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		8038	8039	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		8082	8083	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		8128	8129	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		8150	8151	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		8163	8164	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		8174	8175	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		8258	8259	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		8264	8265	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		8320	8321	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		8342	8343	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		8408	8409	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		8445	8446	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		8482	8483	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		8504	8505	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		8586	8587	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		8596	8597	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		8638	8639	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		8652	8653	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		8722	8723	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		8809	8810	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		8830	8831	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		8838	8839	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		8860	8861	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		8872	8873	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		8896	8897	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		8952	8953	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		8970	8971	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		8996	8997	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		9030	9032	3	6	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		9052	9053	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		9068	9069	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		9075	9076	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		9092	9093	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		9139	9140	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		9152	9153	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		9209	9210	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		9218	9219	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		9243	9244	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		9259	9260	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		9270	9271	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		9280	9281	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		9296	9297	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		9316	9317	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		9338	9339	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		9364	9365	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		9424	9425	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE		9438	9439	3	3	0.36	120	PRODUCTION	OPEN	



03/04/2013	MESAVERDE	9469	9470	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE	9480	9481	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE	9496	9497	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE	9547	9548	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE	9574	9575	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE	9592	9593	3	3	0.36	120	PRODUCTION	OPEN	
03/04/2013	MESAVERDE	BLACKHAWK	10294	10295	4	4	0.36	90	PRODUCTION	OPEN
03/04/2013	MESAVERDE	BLACKHAWK	10322	10323	4	4	0.36	90	PRODUCTION	OPEN
03/04/2013	MESAVERDE	BLACKHAWK	10340	10341	4	4	0.36	90	PRODUCTION	OPEN
03/04/2013	MESAVERDE	BLACKHAWK	10354	10355	4	4	0.36	90	PRODUCTION	OPEN
03/04/2013	MESAVERDE	BLACKHAWK	10378	10380	4	8	0.36	90	PRODUCTION	OPEN
03/04/2013	MESAVERDE	BLACKHAWK	10407	10408	3	3	0.36	120	PRODUCTION	OPEN
03/04/2013	MESAVERDE	BLACKHAWK	10417	10418	3	3	0.36	120	PRODUCTION	OPEN
03/04/2013	MESAVERDE	BLACKHAWK	10437	10438	3	3	0.36	120	PRODUCTION	OPEN
03/04/2013	MESAVERDE	BLACKHAWK	10476	10477	3	3	0.36	120	PRODUCTION	OPEN
03/04/2013	MESAVERDE	BLACKHAWK	10485	10486	3	3	0.36	120	PRODUCTION	OPEN
03/04/2013	MESAVERDE	BLACKHAWK	10503	10504	3	3	0.36	120	PRODUCTION	OPEN
03/04/2013	MESAVERDE	BLACKHAWK	10530	10531	3	3	0.36	120	PRODUCTION	OPEN
03/04/2013	MESAVERDE	BLACKHAWK	10634	10635	3	3	0.36	120	PRODUCTION	OPEN

EOT @ 10,233'**TUBING & CASING PROPERTIES:**

Tbg / Csg	Burst (psi)	Collapse (psi)	Yield (lb _f)	Drift Dia (in)	Capacity	
					(bbl/ft)	(gal/ft)
2-3/8" 4.7 lb/ft J-55 tbg	5,775	6,075	53,798	1.901	0.00387	0.1624
2-3/8" 4.7 lb/ft L-80 tbg	11,228	11,460	78,255	1.901	0.00387	0.1624
2-3/8" 4.7 lb/ft P-110 tbg	11,550	10,350	107,603	1.901	0.00387	0.1624
4-1/2" 11.6 lb/ft L-80 Csg	6,323	5,625	216,030	4.000	0.0155	0.6528
4-1/2" 11.6 lb/ft P-110 Csg	6,765	5,670	275,250	4.000	0.0155	0.6528
2-3/8" by 4-1/2" Annulus					0.0101	0.4227

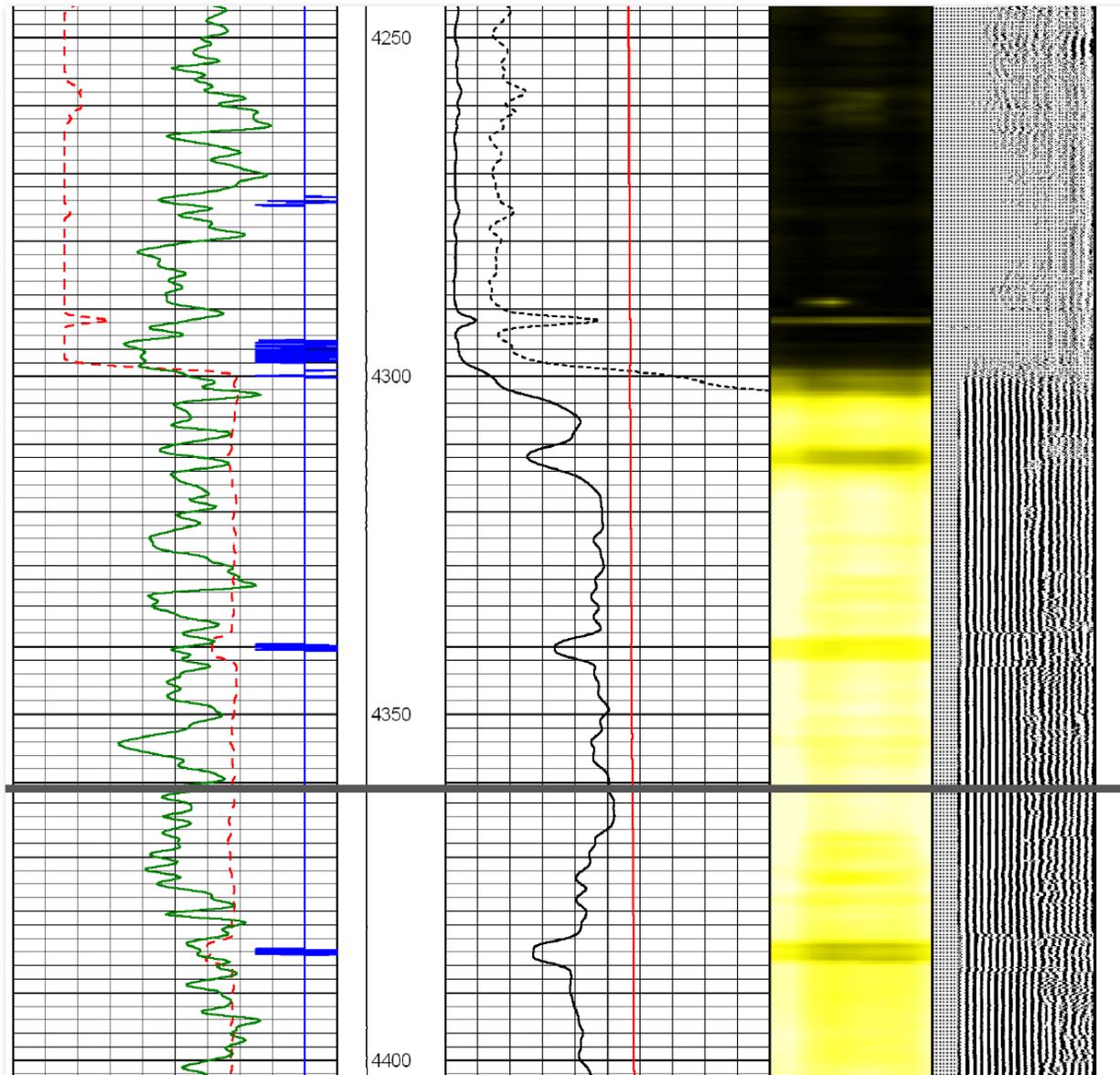
*Above properties with 75% safety factor, below are at specification.

Tubular/Borehole	Drift inches	Collapse psi psi	Burst psi Psi	Capacities		
				Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" 4.7# J-55 tbg.	1.901	8100	7700	0.1624	0.02171	0.00387
4.5" 11.6# N-80	3.875	6350	7780	0.6528	0.0872	0.0155
8.625" 24# J-55	8.097	1370	2950	2.6749	0.3537	0.0636
Annular Capacities						
2.3/8" tbg. X 4 1/2" 17# csg				0.4226	0.0565	0.01
4.5" csg X 8 5/8" 24# csg				1.8487	0.2471	0.044
4.5" csg X 7 7/8 borehole				1.704	0.2278	0.0406
8.5/8" csg X 12 1/4" borehole				3.0874	0.4127	0.0735



CBL @ 4,300' (DV Tool) Possible Leak Location:

Dataset Creation: Sat Feb 09 14:02:00 2013 by Calc SCH 120126		Charted by: Depth in Feet scaled 1:240								
300	Travel Time (usec)	200	LTEN	0	Amplified Amplitude (mV)	20	1	Cement Map	8	VDL
-9	Collar Locator	1		0	Amplitude (mV)	100	0		100	
0	Gamma Ray (GAPI)	150		5	TEMP (degF)	225				





WELL HISTORY:

- Completion: 4/15/2013
- Rig Interventions:
 - None since completion
- Slickline:
 - JUN 2013: Broach to SN @ 10,270'
 - DEC 2013: Broach to SN @ 10,247' and TD @ 10,692'
 - MAR 2014: Broach to SN @ 10243' and TD @ 10698'. Pull Spring and drop Spring and Viper Plunger.
 - AUG 2015: Pace Maker wouldn't trip. Broach to SN @ 10207', FL 9,200', Couldn't latch spring, impression block of flared fishneck, dropped same plunger, RTP.
- Swabbing:
 - DEC 2013, MAR 2014, SEP 2014, NOV 2014, MAR 2015, JUN 2015, AUG 2015, DEC 2015
 - DEC 2015: FL 6,700', 6,500', and 6,100'
- PDB Comments:
 - 12/5/2015 MORGAN OVESON "Well was swabbed on yesterday and dropped new 9'" sleeve, sleeve got hung up in lubricator **Well is making some nasty oil.** Changed out bad primary dump trim and dropped NEW viper on top of pace maker. equalised well and try to unload later."
- **Sample Analyzed by Baker Chemical, inconclusive but appears to be Green River like Oil and Water.**



PROCEDURE:

1. MIRU. Check to see if well will flow. Establish primary well control (Recent maximum observed CSIP ~ 1300 psig). If possible, attempt to use clean, filtered produced H₂O instead of fresh H₂O to mix completions fluids ("T-Mac"). See Jeff Samuels or Edward Wolfram for more information. Monitor for H₂S, vent wellbore fluids, & treat w/ scavenger as appropriate.
2. NDWH & NUBOP.
3. Establish circulation through tbg to casing. Anticipate possible lost circulation through Hole in Casing >4,300'. If unable to establish circulation to surface, review primary well control plan with engineer.
4. Unland tubing. Current **EOT @ ~10,233'**. RIH w/ production tbg string & tag for fill. **Bottom Perforation @ 10,635', PBTD @ ~10,763'**. Change wellbore fluids over to either clean lease-water or completions fluid. Note ECTD on tower sheets. Verify all perforations are open. If perforations are covered with fill, call engineer to review C/O plan (anticipate making a C/O trip to bottom w/ a bit & csg scrapper on bottom of work-string).
 - If tbg stuck, work tbg and attempt to break bridge.
 - If unable to free tubing, run stuck pipe log. Call engineer to develop pipe-recovery plan.
5. POOH, scan, & inspect tbg. Segregate Yellow / Blue / Double Blue / Green & Red Joints. L/D Green & Red jts. L/D & Inspect Yellow, Blue, & Double Blue joint pins and upsets for galling & corrosion. L/D all scaled/damaged joints. L/D and return to yard all J-55 and L-80 for inventory. Replace with P-110. Rabbit all joints L/D.
 - **Check for undocumented stuck plunger(s)/bumper spring(s).**
 - **TAKE PICTURE OF FAILURE(S) and send to engineer.**
 - **Inspect exterior of tbg for scale. If heavy scale found, call engineer to discuss C/O plan.**
6. Collect samples of any recovered solids. Label sample with location, time, & depth. Submit solid samples to engineer, or Nalco Champion Representative (as appropriate).
7. Coordinate w/ Mechanical Lead (John Young) & attempt recovery of any PLE remaining in the used tubing string. Send all L/D tbg into yard for secondary tubing inspection prior to salvage.
8. M/U & RIH w/ Full Gage Mill. RIH w/ mill to max depth attainable (or PBTD). Ensure mill covers all casing above top perforation (**Top Perforation @ 7,646' MD**). POOH & L/D scraper.



9. M/U & RIH w/ Test packer. Set packer w/in 50' of top perforation (**Top Perforation @ 7,646' MD**). Conduct positive pressure casing integrity test of casing above test packer.
 - If casing fails casing integrity test, release packer & repeat test as necessary to locate failure point. Call production engineer Edward Wolfram & completions supervisors Brad Burman & Jeff Samuels to evaluate findings & remediation options.
 - If casing passes casing integrity test, release packer & POOH. Call production engineer Edward Wolfram & completions supervisors Brad Burman & Jeff Samuels to evaluate findings.

10. POOH & L/D test packer.

Proceed with remainder of program only after consulting with & reviewing findings with production engineer (Edward Wolfram) & completions supervisors (Brad Burman & Jeff Samuels). Be prepared to set a bridge plug below damaged casing & MDRO until appropriate remediation is planned.

11. M/U & RIH w/ Composite Bridge Plug (CBP) on bottom of 2-3/8" work string. Set CBP 50' below located hole.
12. Using Clean Fresh Water from a Clean Truck, mix and pump class G Cement (15.8 ppg, 1.15 ft³/Sx) to EOT 15' below located hole. Pressurize and walk the squeeze to 1,000 psi at the foreman's discretion. Do not exceed fracture pressure (~0.65 psi/ft) while pumping cement.
13. Open the CSG valve and displace cement from work-string to create a 50' balanced plug above the hole.
14. PUH ~200' and reverse circulate until returns are clean. POOH & L/D BHA. Apply max squeeze pressure and SWI. Allow Cement to cure overnight.
15. Make-up & RIH w/ 3-7/8" Bit on bottom of work-string. Drill to 10' below located hole.
16. Test casing integrity by pressuring up casing string to the max squeeze pressure at surface for at least 30 minutes. Verify casing pressure does not bleed off by more than 100 psi in 30 minutes. Notify engineer of pressure test results. If casing integrity is not validated by pressure test, request further instructions from engineer.
17. If pressure test on located hole succeeds, drill out remaining cement/CBP. C/O to PBTD. POOH and L/D BHA.



18. Acquire & Pour 10 Gallons Nalco-Champion Combination EC-1317A combination Corrosion Inhibitor / Scale Inhibitor down casing. Contact Nalco-Champion representative Tyler Severe to coordinate chemical delivery in advance.
19. M/U & RIH w/ BHA (verify BHA contains a seating nipple). Drift all tbg before RIH. P/U sufficient new 2-3/8" tbg to replace Green, Red, J-55/L-80, & other damaged/discarded tbg. RIH w/ BHA on bottom of 2-3/8" tubing, in the following sequence:
 - RIH w/ Blue band tbg on bottom.
 - RIH w/ Yellow band tbg above blue band tbg.
 - RIH w/ New (white band) tbg above Yellow band tbg.
 - Replace all L/D tbg with new 2-3/8" 4.7#/ft P-110 tubing.
20. Land 2-3/8" tbg w/ **EOT @ ~10,270' (old EOT)**. Broach entire tubing string with 1.910" broach to surface (broach overlapping sections as you RIH).
21. NDBOP and NUWH.
22. Coordinate w/ Operations whether to kick well off or "blow well around" with foam-unit as part of RTP process.
23. Release well to operations for RTP. Notify IOC, foreman, operators, & Nalco Champion Representative of RDMO.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22265
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Gas Well		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		8. WELL NAME and NUMBER: MORGAN STATE 921-36D1CS
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		9. API NUMBER: 43047522750000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0637 FNL 1989 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 checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 1/25/2016 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	
	<input checked="" type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
A WORKOVER HAS BEEN COMPLETED FOR A CASING REPAIR ON THE MORGAN STATE 921-36D1CS WELL. PLEASE SEE THE ATTACHED OPERATIONS SUMMARY REPORT FOR DETAILS.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY February 08, 2016		
NAME (PLEASE PRINT) Kristina Geno	PHONE NUMBER 720 929-6824	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 2/1/2016	

US ROCKIES REGION
Operation Summary Report

Well: MORGAN STATE 921-36D1CS GREEN

Spud date: 7/13/2012

Project: UTAH-UINTAH

Site: MORGAN STATE 921-36C PAD

Rig name no.: MILES-GRAY 1/1

Event: WELL WORK EXPENSE

Start date: 1/13/2016

End date: 1/25/2016

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

UWI: NE/NW/0/9/S/21/E/36/0/0/26/PM/N/637/W/0/1989/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
1/12/2016	7:00 - 10:30	3.50	MAINT	35		P		RUN INTERNAL PULLING TOOL COULD NOT LATCH PLUNGER. RUN PULLING TOOL COULD NOT LATCH PLUNGER. RUN IMPRESSION IT WAS OF FLARED FISH NECK. FLUID LEVEL 9850 SEAT NIPPLE DEPTH 10,300 SN TYPE TD (Max Depth) 10,300
1/13/2016	7:00 - 7:15	0.25	MAINT	48		P		SAFETY = JSA.
	7:15 - 8:30	1.25	MAINT	30	A	P		MIRU. SPOT IN ALL EQUIP. LAY PUMP LINES, ETC.
	8:30 - 11:00	2.50	MAINT	30	F	P		SICP & SITP= 680#. BLOW DOWN WELL TO PRODUCTION TANKS. SWAP OUT OLD BOP'S FOR NEW BOP'S W/ 3" OUTLET. INSTALL NEW SPOOL PIECE. CNTRL TBNG W/ 15BBLS TMAC. CNTRL CSNG W/ 20BBLS TMAC. NDWH. UN-LAND TBG (NOT STUCK). LAND TBNG BACK ON HANGER. FUNTION TEST BOP. NUBOP. R/U FLOOR & TBG EQUIP. UN-LAND TBG. RMV HANGER. INSTALL WASHINGTON RUBBER.
	11:00 - 15:30	4.50	MAINT	31	I	P		MIRU SCANNERS. POOH WHILE SCANNING 223JTS 2-3/8" MIX STRING TBNG (L-80 & J-55). L/D ALL TBNG FOR BETTER INSPECTION. SCAN RESULTS AS FOLLOWS: Y-BND= 182JTS B-BND= 41JTS R-BND= 100JTS DUE TO INTERNAL PITTING & WALL LOSS. JTS #15 THRU #180 HAD LIGHT PLUNGER WEAR ON ONE SIDE. WORST INTERVAL FOR WEAR JT#117 THRU JT#192. NO EXT OR INT SCALE THRU ENTIRE STRING. RDMO SCANNERS.
	15:30 - 17:00	1.50	MAINT	31	B	P		REMOVE ALL TBNG FROM PIPE RACKS. LOAD RACKS W/ NEW 2-3/8" P-110 TBNG. PREP & TALLY TBNG. R/U FISHING SERVICES. P/U SPEAR, JARS, & BUMPER SUB DESIGNED TO PLUCK CSNG PATCH. STOP RING ABOVE SPEAR WOULD NOT CLEAR WELLHEAD. TRY TO GRIND DOWN RING BUT HAD NO LUCK. L/D TOOLS. WILL RIH W/ TOOLS IN AM W/ SMALLER STOP RING. SWIFN. DRAIN EQUIP. LOCK RAMS. SDFN.
1/14/2016	7:00 - 7:15	0.25	MAINT	48		P		SAFETY = JSA.

US ROCKIES REGION
Operation Summary Report

Well: MORGAN STATE 921-36D1CS GREEN

Spud date: 7/13/2012

Project: UTAH-UINTAH

Site: MORGAN STATE 921-36C PAD

Rig name no.: MILES-GRAY 1/1

Event: WELL WORK EXPENSE

Start date: 1/13/2016

End date: 1/25/2016

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

UWI: NE/NW/0/9/S/21/E/36/0/0/26/PM/N/637/W/0/1989/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	7:15 - 17:00	9.75	MAINT	31	B	P		<p>SICP= 650#. BLOW DOWN CSG TO FLOWBACK TANK. PUMP 30BBLs TMAC DOWN CSNG. P/U & RIH W/ FISHING TOOLS: SPEAR, BUMPER SUB, JARS, 1COLLAR & INTENSIFIER + 134JTS 2-3/8" P-110 TBNG. T/U & SPEAR INTO SALTEL CSNG PATCH @4285'. JAR ON FISH ONE TIME & IT ACTED LIKE IT POPPED FREE. COULD NOT PULL OVER STRING WEIGHT AGIN. POOH W/ TBNG & TOOLS. FOUND FISHING TOOLS HAD BACKED OFF @ THE JARS.</p> <p>TIH W/ TOOLS & 134JTS 2-3/8" P-110 TBNG. SCREW BACK INTO FISHING TOOLS. JAR ON FISH FOR 30MIN F- 30K T- 45K. FISH POPPED FREE AND DRAGGING UP HOLE. POOH WHILE STD BACK TBNG. FISH WOULD NOT CLEAR TBNG HEAD & GOT STUCK. BEAT FISH BACK DOWN HOLE. P/U 1JT TBNG. LAND TBNG ON HANGER. R/D FLOOR & TBG EQUIP. NDBOP. CNTRL WELL W/ 40BBLs TMAC. N/D TBNG HEAD. STRIP OFF TBNG HEAD. STRIP ON BOP. NUBOP. R/U FLOOR & TBNG EQUIP. FINISH POOH W/ TOOLS & FISH. HAD TO JAR FISH THRU WELLHEAD. ONLY RECOVERED 2' OF CSNG PATCH. CSNG PATCH PARTED. SWIFN. LOCK RAMS. DRAIN EQUIP. SDFN.</p>
1/18/2016	7:00 - 7:15	0.25	MAINT	48		P		SAFETY = JSA.
	7:15 - 11:30	4.25	MAINT	31	I	P		<p>SICP= 850#. BLOW DOWN CSNG TO FLOWBACK TANK. CNTRL CSG W/ 40BBLs TMAC. TIH W/ FISHING BHA. POOH WHILE L/D FISHING BHA. P/U 3-15/16" INSERT MILL & TRY TO WORK THRU WELLHEAD FLANGE MULTIPLE TIMES BUT IT WOULD NOT GO. L/D 3-15/16" MILL. P/U & RIH W/ 3-7/8" INSERT MILL + 136JTS 2-3/8" P-110 TBNG. T/U ON CSG PATCH @4287'. R/U POWER SWIVEL. X/O 2" FLOWLINE W/ 3" FLOWLINE.</p>
	11:30 - 17:00	5.50	MAINT	44	D	P		MIRU FOAM-AIR UNIT. BREAK CONV CIRC IN 20MIN. MILL OUT 14' OF CSNG PATC TO 4301'. METAL & RUBBER IN RETURNS. CIRC WELL CLEAN FOR 40MIN (RETURNS CLEAN). PUH 1JT. SWIFN. DRAIN EQUIP. LOCK RAMS. SDFN.
1/19/2016	7:00 - 7:15	0.25	MAINT	48		P		SAFETY = JSA.
	7:15 - 9:20	2.08	MAINT	44	D	P		<p>SICP= 800#. TSF INSTALLED IN TBNG (PRESSURE NOT AVAILABLE). OPEN CSG TO FLOWBACK TANK. P/U 1JT 2-3/8" P-110 TBNG W/ POWER SWIVEL. R/U FOAM-AIR UNIT. BREAK CONV CIRC IN 25MIN. CONT MILLING ON SALTEL CSNG PATCH. 14' OF 19' PATCH WAS MILLED OUT PREVIOUS DAY. MILL 2' MORE OF PATCH AND THE REMAINING +/- 3' FELL DOWN HOLE. RIH W/ 3 MORE JTS TBNG TO MAKE SURE PATCH MADE IT THRU CSNG COLLARS (GOOD). CIRC WELLBORE CLEAN FOR 30MIN. CNTRL TBNG W/ 15BBLs TMAC. HANG BACK POWER SWIVEL. PUH & REMOVE TSF.</p>

US ROCKIES REGION
Operation Summary Report

Well: MORGAN STATE 921-36D1CS GREEN

Spud date: 7/13/2012

Project: UTAH-UINTAH

Site: MORGAN STATE 921-36C PAD

Rig name no.: MILES-GRAY 1/1

Event: WELL WORK EXPENSE

Start date: 1/13/2016

End date: 1/25/2016

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

UWI: NE/NW/0/9/S/21/E/36/0/0/26/PM/N/637/W/0/1989/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	9:20 - 12:15	2.92	MAINT	31	I	P		PREP & TALLY TBNG ON PIPE RACKS. CONT RIH W/ 3-7/8" MILL & 2-3/8" P-110 TBNG. MAKING SURE PATCH DOESNT HANG UP ABOVE TOP PERF. TIH TO 7716' (THRU TOP PERF) W/ TOTAL OF 244JTS 2-3/8" P-110 TBNG. DID NOT SEE REMAINDER OF CSNG PATCH. POOH WHILE STANDING BACK 244JTS TBG. L/D MILL.
	12:15 - 13:30	1.25	MAINT	34	I	P		MIRU WIRELINE. P/U & RIH W/ 4-1/2" 8K CBP. SET CBP @ 7608'. POOH E-LINE. RDMO E-LINE.
	13:30 - 17:00	3.50	MAINT	31	I	P		DV TOOL LOCATED 4295'-4298'. P/U & RIH W/ 4-1/2" PACKER (BAKER MODEL 32A) + 136JTS 2-3/8" P-110 TBNG. LOAD CSNG W/ 70BBLS TMAC. SET PACKER @4311'. TEST CSNG BELOW PACKER GOOD @ 1500# (NO VISIBLE PRESSURE LOSS IN 10MIN). TEST CSNG ABOVE PACKER BAD (LOST 200# IN 3MIN. REPEAT TEST 3 TIMES). RELEASE PACKER. PUH W/ 135JTS TBNG IN & SET PACKER @4279'. PRESSURE TEST ABOVE PACKER GOOD @1500# (NO VISIBLE PRESSURE LOSS IN 10MIN. TEST BELOW PACKER BAD (LOST 200# IN 3MIN. REPEAT TEST 3 TIMES). RELEASE PACKER. POOH WHILE STD BACK 136JTS TBNG. L/D PACKER. DRAIN EQUIP. SWIFN. SDFN. LOCK RAMS. NOTE: INJECTION RATE COULD NOT BE ESTABLISHED. CSNG WILL HAVE TO BE PERFORATED TO SQZ.
1/20/2016	7:00 - 7:15	0.25	MAINT	48		P		SAFETY = JSA.
	7:15 - 8:45	1.50	MAINT	30	F	P		SICP= 0#. R/D FLOOR & TBNG EQUIP NDBOP. N/U TBNG HEAD W/ NEW RING GASKET & BOLTS. NUBOP. FUNCTION TEST. R/U FLOOR & TBG EQUIP.
	8:45 - 9:45	1.00	MAINT	34	H	P		MIRU WIRELINE. P/U & RIH W/ 1' X 4SPF CSNG SQZ GUN. PERF 4-1/2" PRODUCTION CSNG @ 4315'. POOH E-LINE. RDMO E-LINE. PUMP TMAC DOWN 4-1/2" PRODUCTION CSNG. CATCH PRESSURE W/ 5BBLS. ESTABLISH INJECTION RATE OF 1/2BPM @ 1200#. INJECT W/ 15BBLS UNTIL STABILIZED. BLEED OFF PRESSURE.
	9:45 - 11:15	1.50	MAINT	31	I	P		P/U & RIH W/ 4-1/2" CICR + 134JTS 2-3/8" P-110 TBNG. SET CICR @4247'.
	11:15 - 13:00	1.75	MAINT	51	C	P		MIRU CMT CREW. EST INJECTION RATE W/ 15BBLS TMAC (1BPM @ 1500#). MIX & PUMP 70SX 15.8# NEAT G CMT. DISPLACE W/ 15.9BBLS TMAC. WALKING SQUEEZE (FINAL RATE & PRESSURE= .5BPM @1750#. STING OUT OF CICR. PUH 5'. REV CIRC W/ 20BBLS TMAC UNTIL NO TRACE OF CMT. RDMO CMT CREW.
	13:00 - 14:15	1.25	MAINT	31	I	P		POOH WHILE STD BACK 134JTS 2-3/8" P-110 TBNG. L/D STINGER. SWIFN. DRAIN EQUIP. LOCK RAMS.
	14:15 - 16:00	1.75	MAINT	30		P		LOAD TBNG ON PIPE RACKS. PREP & TALLY TBNG. LAY PUMP LINE TO FLAT TANK. SDFN.
1/21/2016	7:00 - 7:15	0.25	MAINT	48		P		SAFETY = JSA.
	7:15 - 9:30	2.25	MAINT	31	I	P		0# ON WELL. P/U & RIH W/ 3-7/8" MILL, POBS, 1.875" XN + 134JTS 2-3/8" P-110 TBNG. T/U ON CMT @4242'. R/U POWER SWIVEL.

US ROCKIES REGION
Operation Summary Report

Well: MORGAN STATE 921-36D1CS GREEN

Spud date: 7/13/2012

Project: UTAH-UINTAH

Site: MORGAN STATE 921-36C PAD

Rig name no.: MILES-GRAY 1/1

Event: WELL WORK EXPENSE

Start date: 1/13/2016

End date: 1/25/2016

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

UWI: NE/NW/0/9/S/21/E/36/0/0/26/PM/N/637/W/0/1989/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	9:30 - 14:00	4.50	MAINT	44	D	P		BREAK CONV CIRC W/ RIG PUMP. D/O 5' CMT & T/U ON CIRC @4247'. D/O CIRC IN 2.5HRS. CIRC ROTATING W/ MILL. D/O CMT TO 4315' AND FALL THRU. CIRC WELL FOR 30MIN UNTIL RETURNS WERE CLEAN.
	14:00 - 14:30	0.50	MAINT	52	F	P		PRESSURE TEST 4-1/2" PRODUCTION CSNG & SQZ JOB GOOD @ 1500#. LOST 5# IN 15MIN. BLEED OFF PRESSURE.
	14:30 - 16:00	1.50	MAINT	31	I	P		HANG BACK POWER SWIVEL. CONT TIH W/ CURRENT BHA + TBNG. T/U ON CBP ISO PLUG @7608' W/ 240JTS TOTAL + BHA. L/D1JT TBNG. R/U POWER SWIVEL. SWIFN. LOCK RAMS. DRAIN EQUIP. SDFN.
1/25/2016	7:00 - 7:15	0.25	MAINT	48		P		SAFETY = JSA.
	7:15 - 9:00	1.75	MAINT	31	N	P		0# ON WELL. OPEN WELL TO FLOWBACK TANK. MIRU N2 FOAM UNIT. BREAK CONV CIRC IN 45MIN. D/O CBP @7608' IN 17MIN W/ 100# DIFFERENTIAL PRESSURE. RIH 2 MORE JTS W/ POWER SWIVEL. CIRC CLEAN FOR 15MIN (STRONG FLOW FROM WELL). CNTRL TBNG W/ 5BBLs TMAC. HANG BACK POWER SWIVEL. PUH & REMOVE TSF.
	9:00 - 16:00	7.00	MAINT	31	I	P		R/U SANDLINE W/ 1.910" BROACH. BROACH 245JTS FROM SURFACE TO XN GOOD. R/D BROACH EQUIP. CONT RIH W/ 3-7/8" MILL, POBS, XN + 2-3/8" P-110 TBNG. T/U ON FILL @ 10,705' W/ 338JTS 2-3/8" P-110+ BHA. BTM PERF @10,635' (GOOD RATHOLE). POOH WHILE L/D 14JTS EXCESS TBNG. R/U SAND LINE & BROACH TOP 4000' OF TBNG GOOD W/ 1.910" BROACH. LAND TBNG ON HANGER. R/D FLOOR & TBG EQUIP. NDBOP. NUWH. R/U N2-FOAM UNIT. PUMP OFF MILL @1300#. CIRC WELLBORE CLEAN & DRY. SWI. RACK OUT EQUIP. R/D RIG. PREP FOR MOVE IN AM. PRODUCTION TBNG LANDED AS FOLLOWS: KB= 26.00' HANGER = .83' 324JTS 2-3/8" NEW P-110 TBNG= 10,230.22' 1.875" XN-POBS= 2.20' EOT @10,259.25'