

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 921-36F1BS								
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT NATURAL BUTTES								
4. TYPE OF WELL Gas Well <input type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>						5. UNIT or COMMUNITIZATION AGREEMENT NAME								
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.						7. OPERATOR PHONE 720 929-6515								
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217						9. OPERATOR E-MAIL julie.jacobson@anadarko.com								
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) ML 22265			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>			13. NAME OF SURFACE OWNER (if box 12 = 'fee')			14. SURFACE OWNER PHONE (if box 12 = 'fee')		
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')								
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>								
20. LOCATION OF WELL		FOOTAGES		QTR-QTR		SECTION		TOWNSHIP		RANGE		MERIDIAN		
LOCATION AT SURFACE		1512 FNL 1807 FWL		SENW		36		9.0 S		21.0 E		S		
Top of Uppermost Producing Zone		1408 FNL 2144 FWL		SENW		36		9.0 S		21.0 E		S		
At Total Depth		1408 FNL 2144 FWL		SENW		36		9.0 S		21.0 E		S		
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 1408			23. NUMBER OF ACRES IN DRILLING UNIT 639								
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 766			26. PROPOSED DEPTH MD: 10597 TVD: 10574								
27. ELEVATION - GROUND LEVEL 4996			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 - 2610	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 - 10597	11.6	HCP-110 LT&C	13.0	Premium Lite High Strength		320	3.38	12.0			
							50/50 Poz		1530	1.31	14.3			
ATTACHMENTS														
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES														
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER						<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN								
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)						<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER								
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)						<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP								
NAME Danielle Piernot				TITLE Regulatory Analyst				PHONE 720 929-6156						
SIGNATURE				DATE 12/19/2011				EMAIL danielle.piernot@anadarko.com						
API NUMBER ASSIGNED 43047522810000				APPROVAL  Permit Manager										

Kerr-McGee Oil & Gas Onshore. L.P.**MORGAN STATE 921-36F1BS**

Surface: 1512 FNL / 1807 FWL SENW
 BHL: 1408 FNL / 2144 FWL SENW

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	1,362'	
Birds Nest	1,662'	Water
Mahogany	2,161'	Water
Wasatch	4,619'	Gas
Mesaverde	7,303'	Gas
Sego	9,487'	Gas
Castlegate	9,542'	Gas
MN5	9,974'	Gas
TVD =	10,574'	
TD =	10,597'	

- 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 Segeo 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 10574' TVD, approximately equals
6,979 psi (0.66 psi/ft = actual bottomhole gradient)

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

Maximum anticipated surface pressure equals approximately 4,701 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 9487' TVD, approximately equals
6,072 psi (0.64 psi/ft = actual bottomhole gradient)

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

Maximum anticipated surface pressure equals approximately 3,971 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.

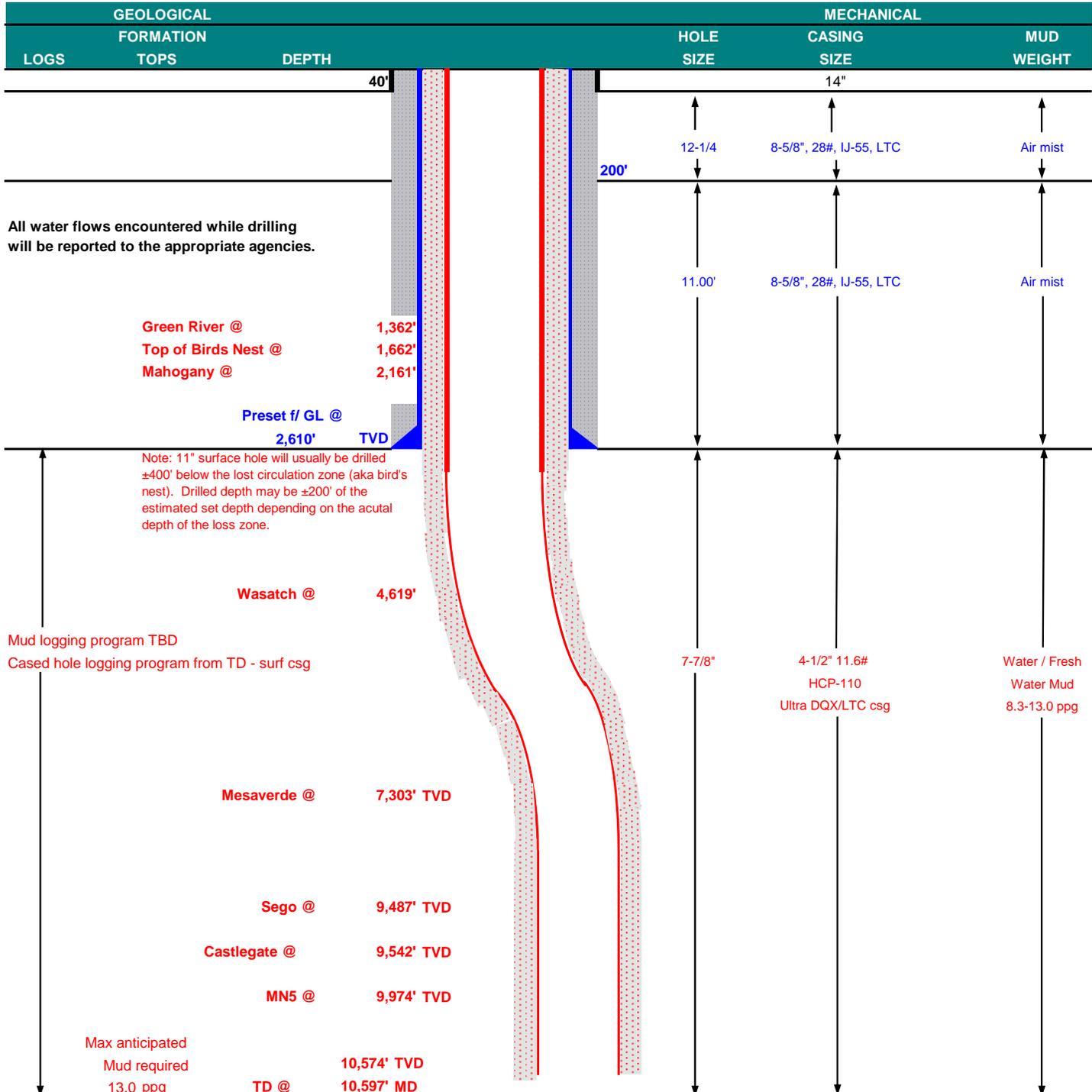
10. **Other Information:**

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 921-36F1BS		TD	10,574'	TVD	10,597' MD	
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION	4,994'
SURFACE LOCATION	SENW	1512 FNL	1807 FWL	Sec 36	T 9S	R 21E	
	Latitude:	39.995627	Longitude:	-109.502343			NAD 27
BTM HOLE LOCATION	SENW	1408 FNL	2144 FWL	Sec 36	T 9S	R 21E	
	Latitude:	39.99591	Longitude:	-109.501142			NAD 27
OBJECTIVE ZONE(S)	BLACKHAWK						
ADDITIONAL INFO	Regulatory Agencies: UDOGM (Minerals), UDOGM (Surface), UDOGM Tri-County Health Dept.						





KERR-McGEE OIL & GAS ONSHORE LP
BLACKHAWK DRILLING PROGRAM

CASING PROGRAM

							DESIGN FACTORS			
	SIZE	INTERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	LTC	DQX
		TENSION								
CONDUCTOR	14"	0-40'					3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0	to 2,610	28.00	IJ-55	LTC	2.06	1.54	5.44	N/A
PRODUCTION	4-1/2"	0	to 5,000	11.60	HCP-110	DQX	1.19	1.21	279,000	367,174
	4-1/2"	5,000	to 10,597'	11.60	HCP-110	LTC	1.19	1.21	5.36	

Surface Casing:

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

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

(Collapse Assumption: Fully Evacuated Casing, Max MW)

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

Production casing:

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

(Collapse Assumption: Fully Evacuated Casing, Max MW)

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

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80	1.15
Option 1	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80	1.15
NOTE: If well will circulate water to surface, option 2 will be utilized							
SURFACE	LEAD	2,110'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	190	35%	11.00	3.82
Option 2	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.80	1.15
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	4,117'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	320	35%	12.00	3.38
	TAIL	6,480'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,530	35%	14.30	1.31

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

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

FLOAT EQUIPMENT & CENTRALIZERS

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

ADDITIONAL INFORMATION

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

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

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

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

DRILLING ENGINEER:

Nick Spence / Danny Showers / Chad Loesel

DATE: _____

DRILLING SUPERINTENDENT:

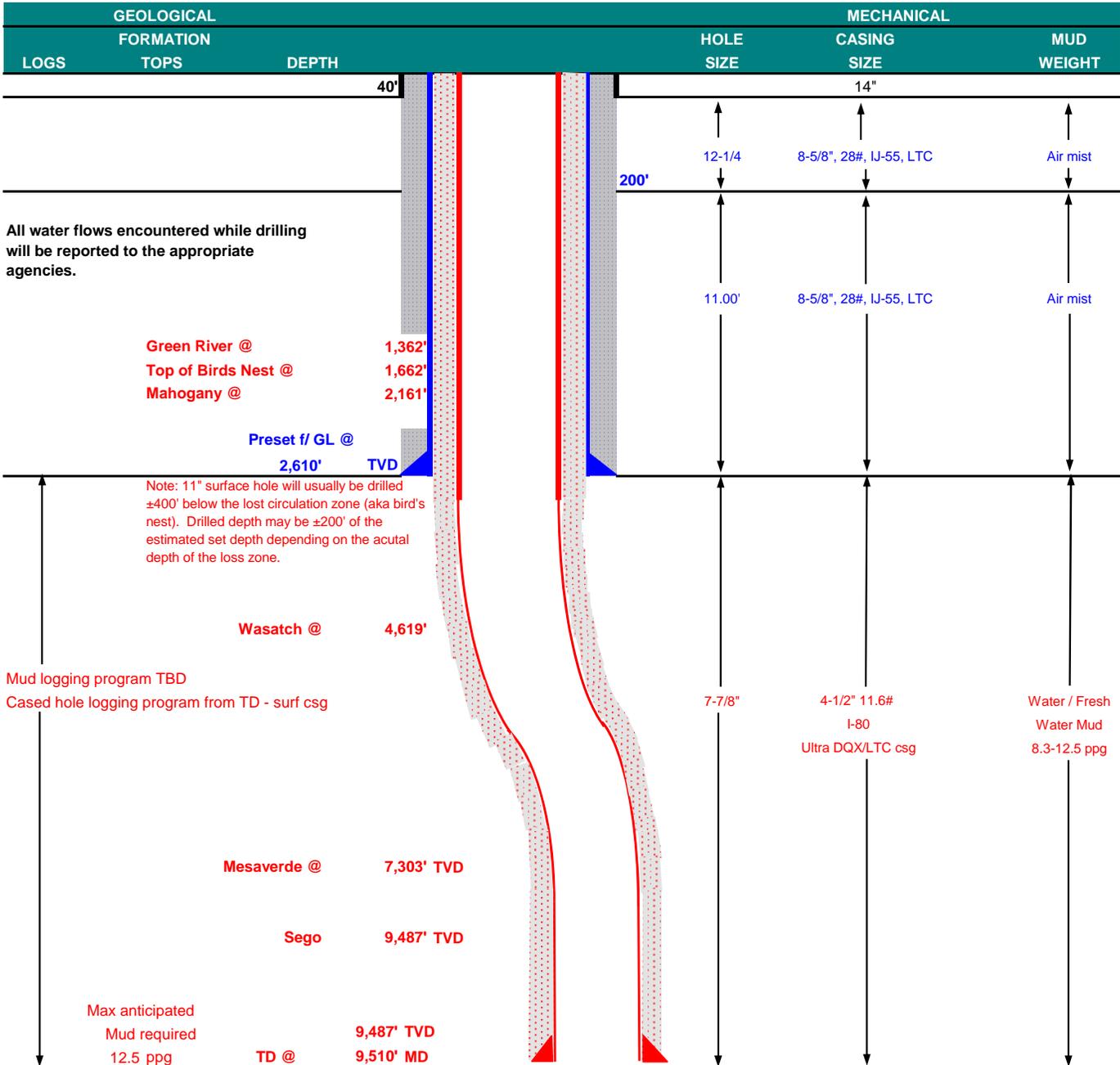
Kenny Gathings / Lovel Young

DATE: _____



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

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	December 19, 2011	
WELL NAME	MORGAN STATE 921-36F1BS		TD	9,487'	TVD 9,510' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah
SURFACE LOCATION	SENW	1512 FNL	1807 FWL	Sec 36 T 9S R 21E	FINISHED ELEVATION 4,994'
	Latitude: 39.995627		Longitude: -109.502343		NAD 27
BTM HOLE LOCATION	SENW	1408 FNL	2144 FWL	Sec 36 T 9S R 21E	
	Latitude: 39.99591		Longitude: -109.501142		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 2,610	28.00	IJ-55	LTC	2.06	1.54	5.44	N/A		
						7,780	6,350		267,035		
PRODUCTION	4-1/2"	0 to 5,000	11.60	I-80	DQX	1.11	1.03		2.99		
						7,780	6,350	223,000			
	4-1/2"	5,000 to 9,510'	11.60	I-80	LTC	1.11	1.03	5.27			

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)

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		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
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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	2,110'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	190	35%	11.00	3.82
Option 2	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.80	1.15
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	4,110'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	320	35%	12.00	3.38
	TAIL	5,400'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,280	35%	14.30	1.31

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

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

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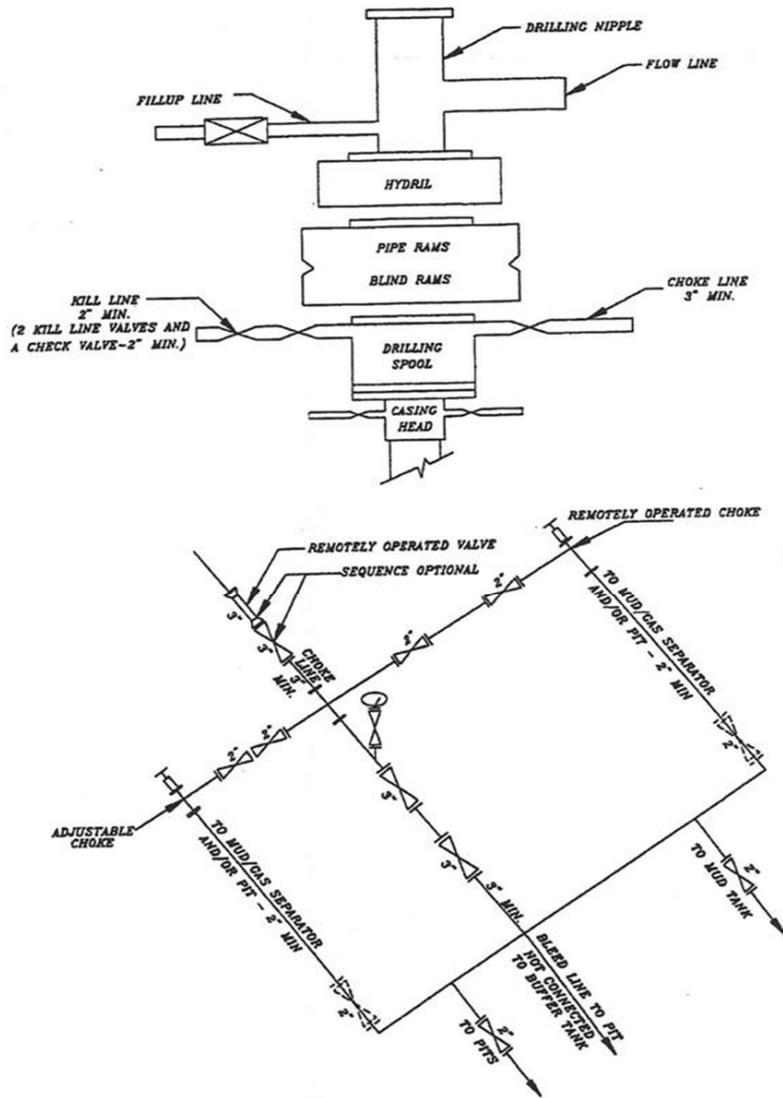
DRILLING ENGINEER: _____
Nick Spence / Danny Showers / Chad Loesel

DATE: _____

DRILLING SUPERINTENDENT: _____
Kenny Gathings / Lovel Young

DATE: _____

EXHIBIT A
MORGAN STATE 921-36F1BS



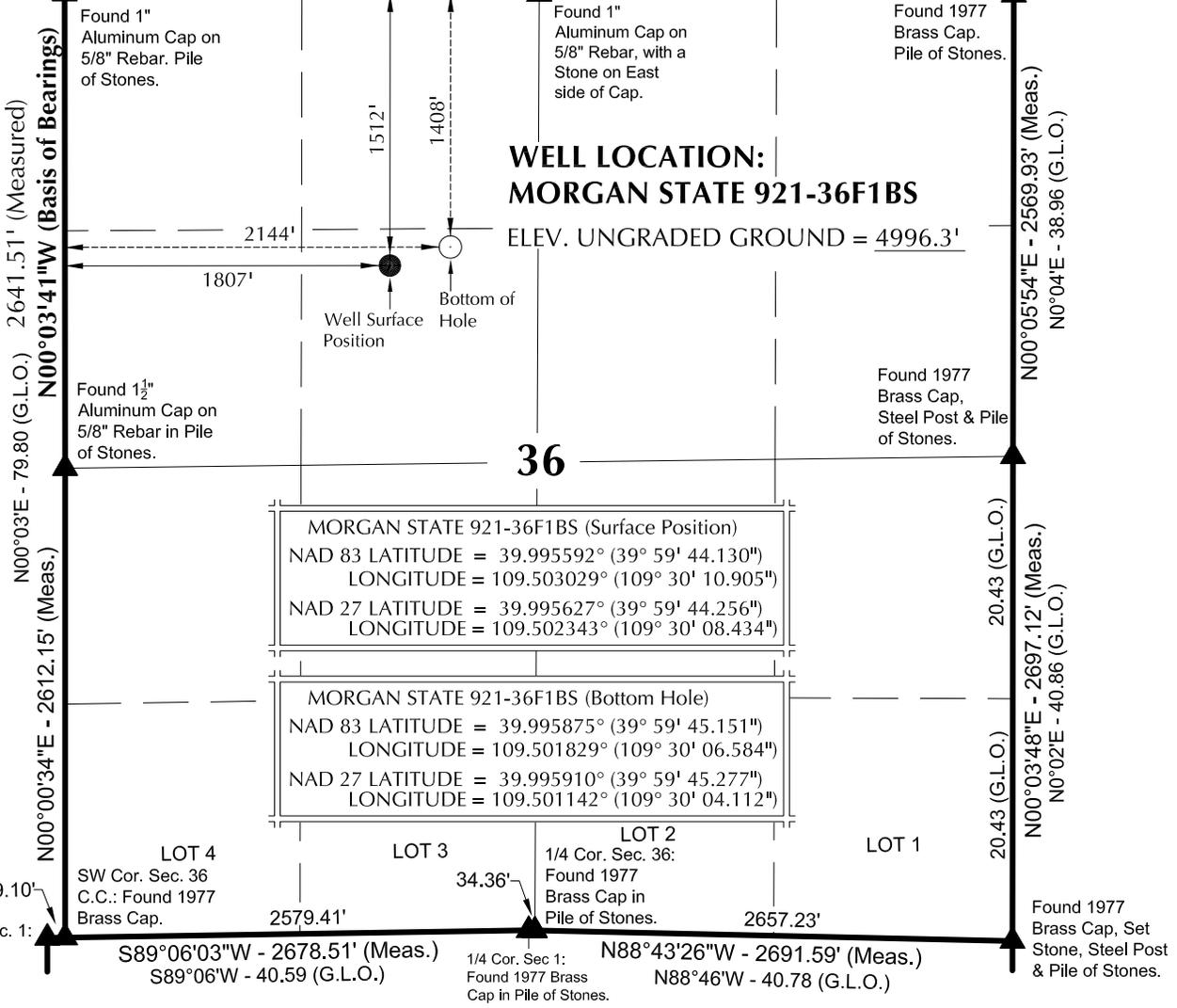
SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

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

WEST - 80.00 (G.L.O.)

N89°55'26"W - 2639.89' (Meas.)

N89°56'39"W - 2639.91' (Meas.)



**WELL LOCATION:
MORGAN STATE 921-36F1BS**

ELEV. UNGRADED GROUND = 4996.3'

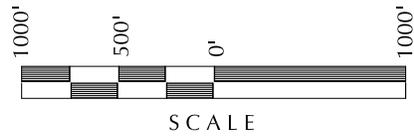
MORGAN STATE 921-36F1BS (Surface Position)
 NAD 83 LATITUDE = 39.995592° (39° 59' 44.130")
 LONGITUDE = 109.503029° (109° 30' 10.905")
 NAD 27 LATITUDE = 39.995627° (39° 59' 44.256")
 LONGITUDE = 109.502343° (109° 30' 08.434")

MORGAN STATE 921-36F1BS (Bottom Hole)
 NAD 83 LATITUDE = 39.995875° (39° 59' 45.151")
 LONGITUDE = 109.501829° (109° 30' 06.584")
 NAD 27 LATITUDE = 39.995910° (39° 59' 45.277")
 LONGITUDE = 109.501142° (109° 30' 04.112")

36

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 N72°56'55"E 351.92' from the Surface Position.
- 4. Bearings are based on Global Positioning Satellite observations.
- 5. Basis of elevation is Tri-Sta "Two Water" located in the NW ¼ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.



SURVEYOR'S CERTIFICATE

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

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

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

WELL PAD: MORGAN STATE 921-36F2

**MORGAN STATE 921-36F1BS
 WELL PLAT**
 1408' FNL, 2144' FWL (Bottom Hole)
 SE ¼ NW ¼ OF SECTION 36, T9S, R21E,
 S.L.B.&M., UTAH COUNTY, UTAH.

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

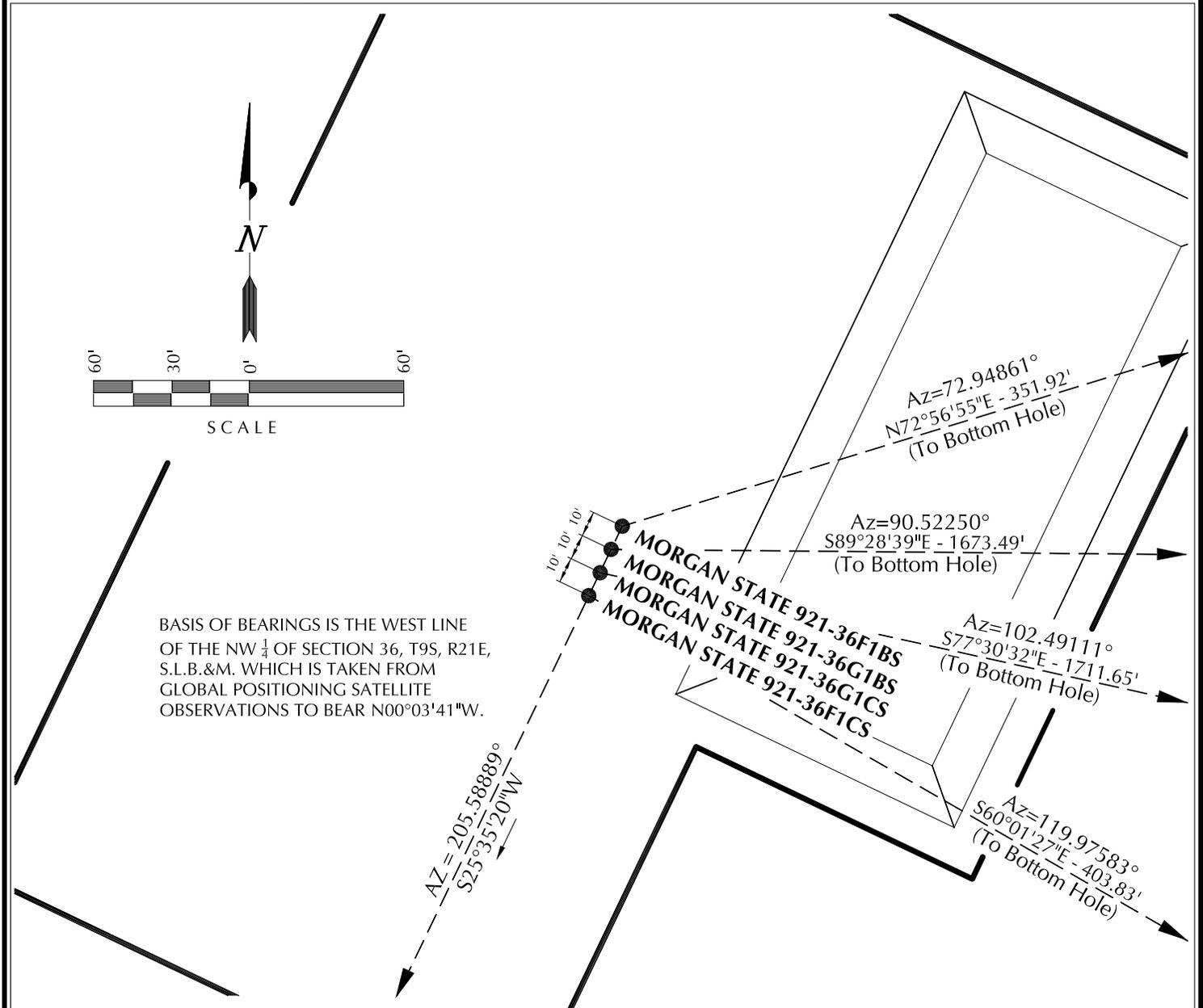
TIMBERLINE (435) 789-1365
 ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 10-11-10	SURVEYED BY: J.W.	SHEET NO: 1
DATE DRAWN: 10-29-10	DRAWN BY: T.J.R.	
SCALE: 1" = 1000'		1 OF 16

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
MORGAN STATE 921-36F1BS	39°59'44.130"	109°30'10.905"	39°59'44.256"	109°30'08.434"	1512' FNL 1807' FWL	39°59'45.151"	109°30'06.584"	39°59'45.277"	109°30'04.112"	1408' FNL 2144' FWL
MORGAN STATE 921-36G1BS	39°59'44.040"	109°30'10.961"	39°59'44.167"	109°30'08.489"	1521' FNL 1803' FWL	39°59'43.896"	109°29'49.464"	39°59'44.022"	109°29'46.994"	1534' FNL 1799' FEL
MORGAN STATE 921-36G1CS	39°59'43.951"	109°30'11.016"	39°59'44.077"	109°30'08.545"	1530' FNL 1799' FWL	39°59'40.300"	109°29'49.548"	39°59'40.426"	109°29'47.077"	1898' FNL 1805' FEL
MORGAN STATE 921-36F1CS	39°59'43.862"	109°30'11.072"	39°59'43.988"	109°30'08.600"	1539' FNL 1794' FWL	39°59'41.870"	109°30'06.577"	39°59'41.997"	109°30'04.106"	1740' FNL 2144' 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 921-36F1BS	103.2'	336.5'	MORGAN STATE 921-36G1BS	-15.3'	1673.4'	MORGAN STATE 921-36G1CS	-370.2'	1671.1'	MORGAN STATE 921-36F1CS	-201.8'	349.8'



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WELL PAD - MORGAN STATE 921-36F2

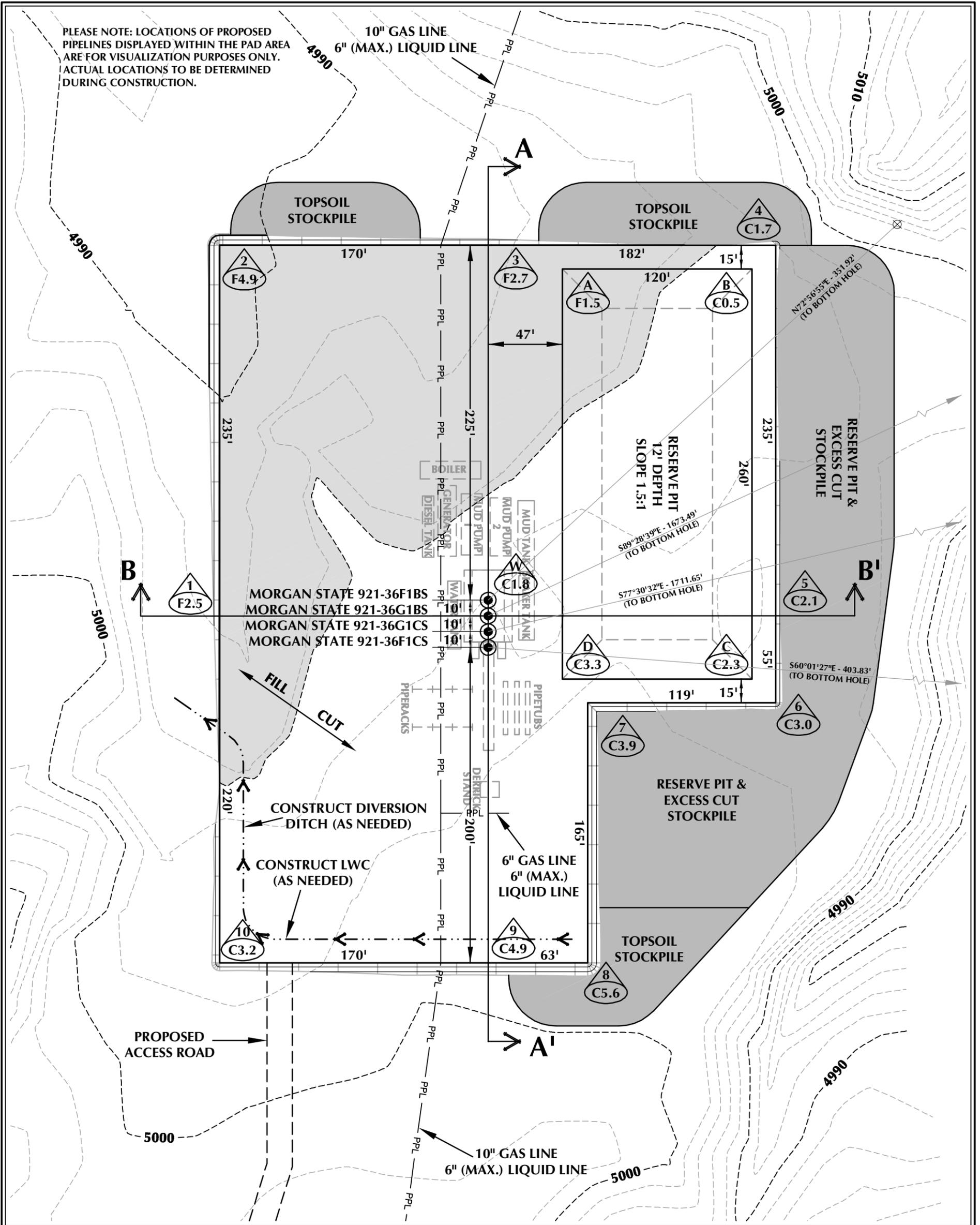
WELL PAD INTERFERENCE PLAT
WELLS - MORGAN STATE 921-36F1BS,
MORGAN STATE 921-36G1BS,
MORGAN STATE 921-36G1CS &
MORGAN STATE 921-36F1CS
LOCATED IN SECTION 36, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH.



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2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
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DATE SURVEYED: 10-11-10	SURVEYED BY: J.W.	SHEET NO: 5
DATE DRAWN: 10-29-10	DRAWN BY: T.J.R.	
SCALE: 1" = 60'		5 OF 16



WELL PAD - MORGAN STATE 921-36F2 DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 4996.1'
 FINISHED GRADE ELEVATION = 4994.3'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1
 TOTAL WELL PAD AREA = 3.40 ACRES
 TOTAL DISTURBANCE AREA = 4.64 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00

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WELL PAD - MORGAN STATE 921-36F2

WELL PAD - LOCATION LAYOUT
 MORGAN STATE 921-36F1BS,
 MORGAN STATE 921-36G1BS,
 MORGAN STATE 921-36G1CS &
 MORGAN STATE 921-36F1CS
 LOCATED IN SECTION 36, T9S, R21E,
 S.L.B.&M., Uintah County, Utah



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WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 5,938 C.Y.
 TOTAL FILL FOR WELL PAD = 4,820 C.Y.
 TOPSOIL @ 6" DEPTH = 2,741 C.Y.
 EXCESS MATERIAL = 1,118 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

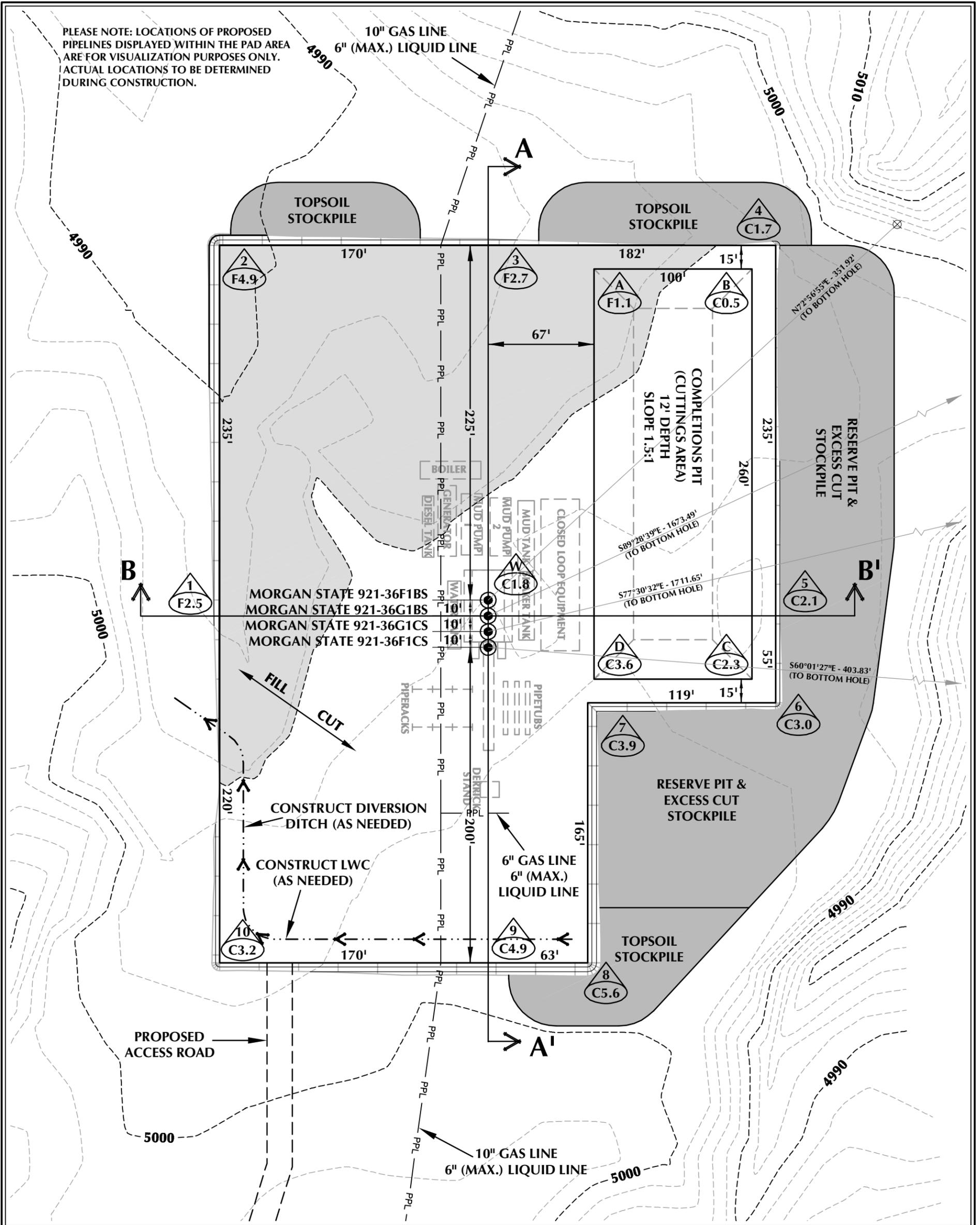
- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL - PROPOSED PIPELINE
- EPL - EXISTING PIPELINE



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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WELL PAD - MORGAN STATE 921-36F2 (CLOSED LOOP) DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 4996.1'
 FINISHED GRADE ELEVATION = 4994.3'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1
 TOTAL WELL PAD AREA = 3.40 ACRES
 TOTAL DISTURBANCE AREA = 4.64 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00

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WELL PAD - MORGAN STATE 921-36F2

WELL PAD - LOCATION LAYOUT
 MORGAN STATE 921-36F1BS,
 MORGAN STATE 921-36G1BS,
 MORGAN STATE 921-36G1CS &
 MORGAN STATE 921-36F1CS
 LOCATED IN SECTION 36, T9S, R21E,
 S.L.B.&M., Uintah County, Utah



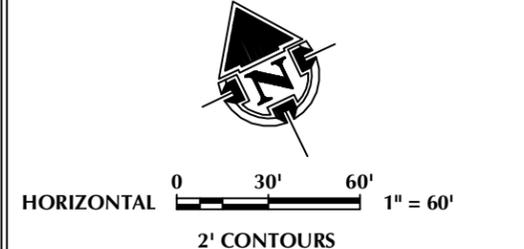
CONSULTING, LLC
 2155 North Main Street
 Sheridan, WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

WELL PAD QUANTITIES
 TOTAL CUT FOR WELL PAD = 5,938 C.Y.
 TOTAL FILL FOR WELL PAD = 4,820 C.Y.
 TOPSOIL @ 6" DEPTH = 2,741 C.Y.
 EXCESS MATERIAL = 1,118 C.Y.

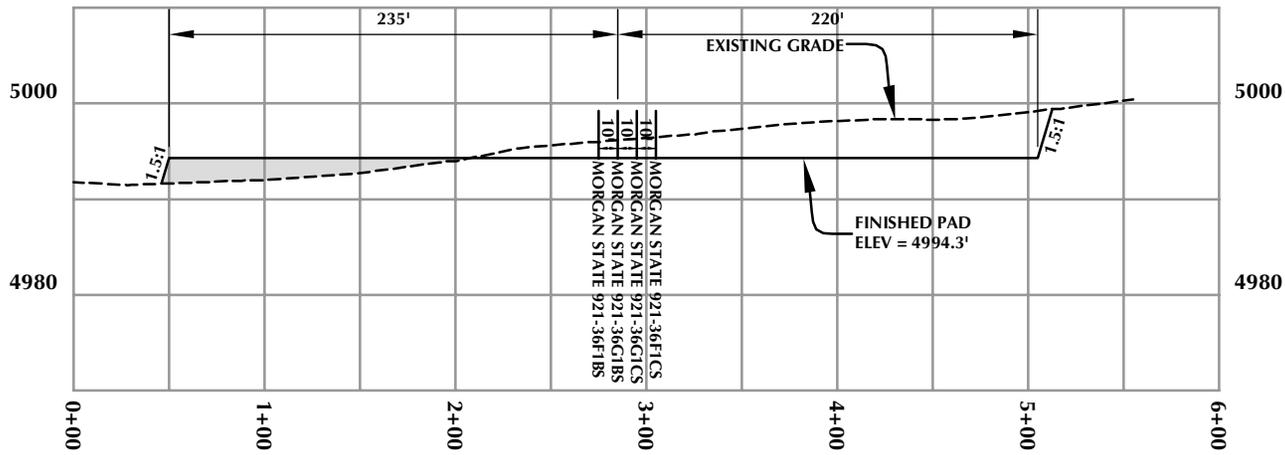
COMPLETIONS PIT QUANTITIES
 TOTAL CUT FOR COMPLETIONS PIT
 +/- 8,870 C.Y.
 COMPLETIONS PIT CAPACITY
 (2' OF FREEBOARD)
 +/- 33,770 BARRELS

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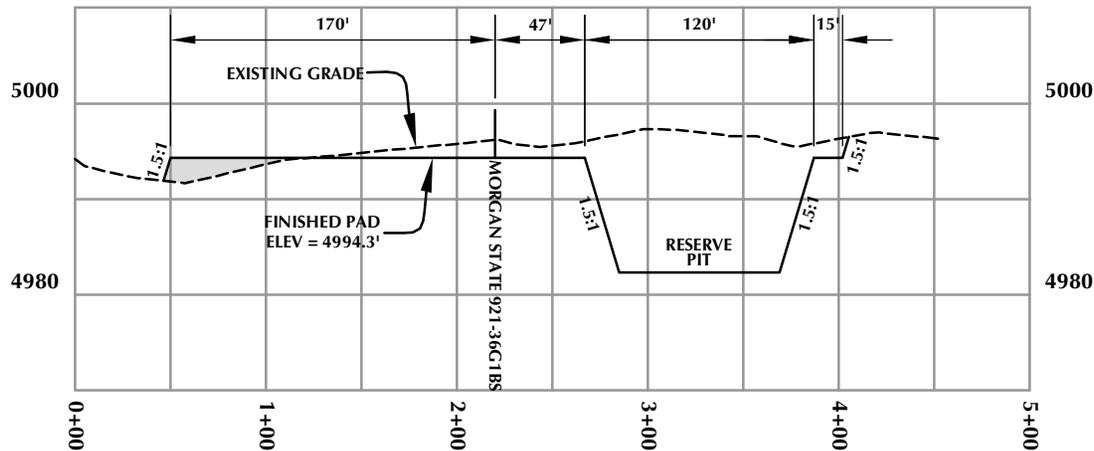
- WELL PAD LEGEND**
- EXISTING WELL LOCATION
 - PROPOSED WELL LOCATION
 - PROPOSED BOTTOM HOLE LOCATION
 - EXISTING CONTOURS (2' INTERVAL)
 - PROPOSED CONTOURS (2' INTERVAL)
 - PROPOSED PIPELINE
 - EXISTING PIPELINE



SCALE: 1"=60' DATE: 11/15/11 SHEET NO:
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CROSS SECTION A-A'



CROSS SECTION B-B'

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WELL PAD - MORGAN STATE 921-36F2

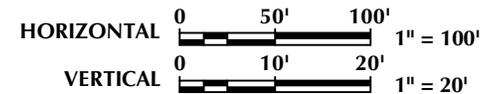
WELL PAD - CROSS SECTIONS
MORGAN STATE 921-36F1BS,
MORGAN STATE 921-36G1BS,
MORGAN STATE 921-36G1CS &
MORGAN STATE 921-36F1CS
LOCATED IN SECTION 36, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH



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Scale: 1"=100'

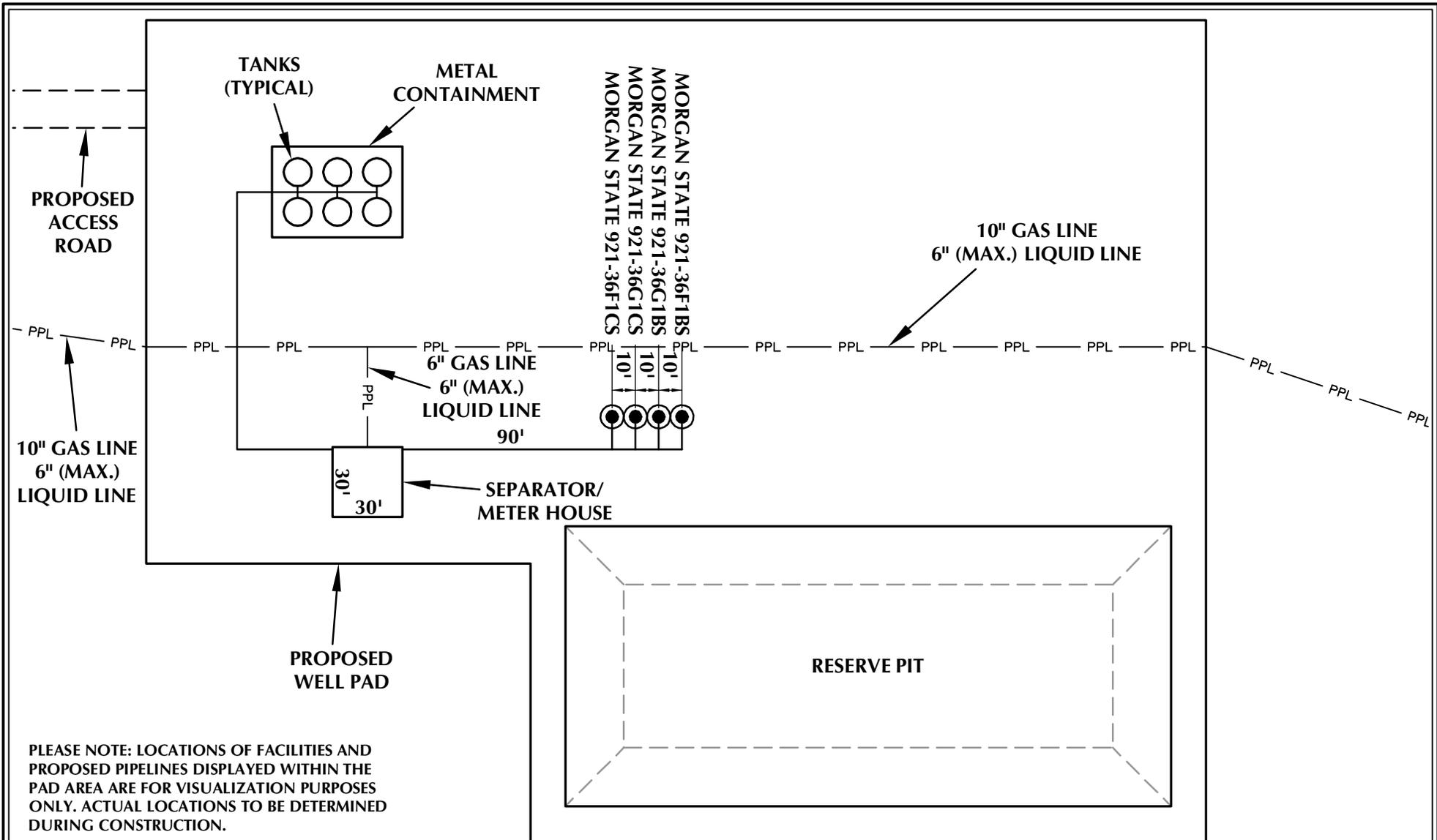
Date: 11/11/11

SHEET NO:

REVISED:

7

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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 921-36F2

WELL PAD - FACILITIES DIAGRAM
MORGAN STATE 921-36F1BS,
MORGAN STATE 921-36G1BS,
MORGAN STATE 921-36G1CS &
MORGAN STATE 921-36F1CS
LOCATED IN SECTION 36, T9S, R21E,
S.L.B.&M., UINAH 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

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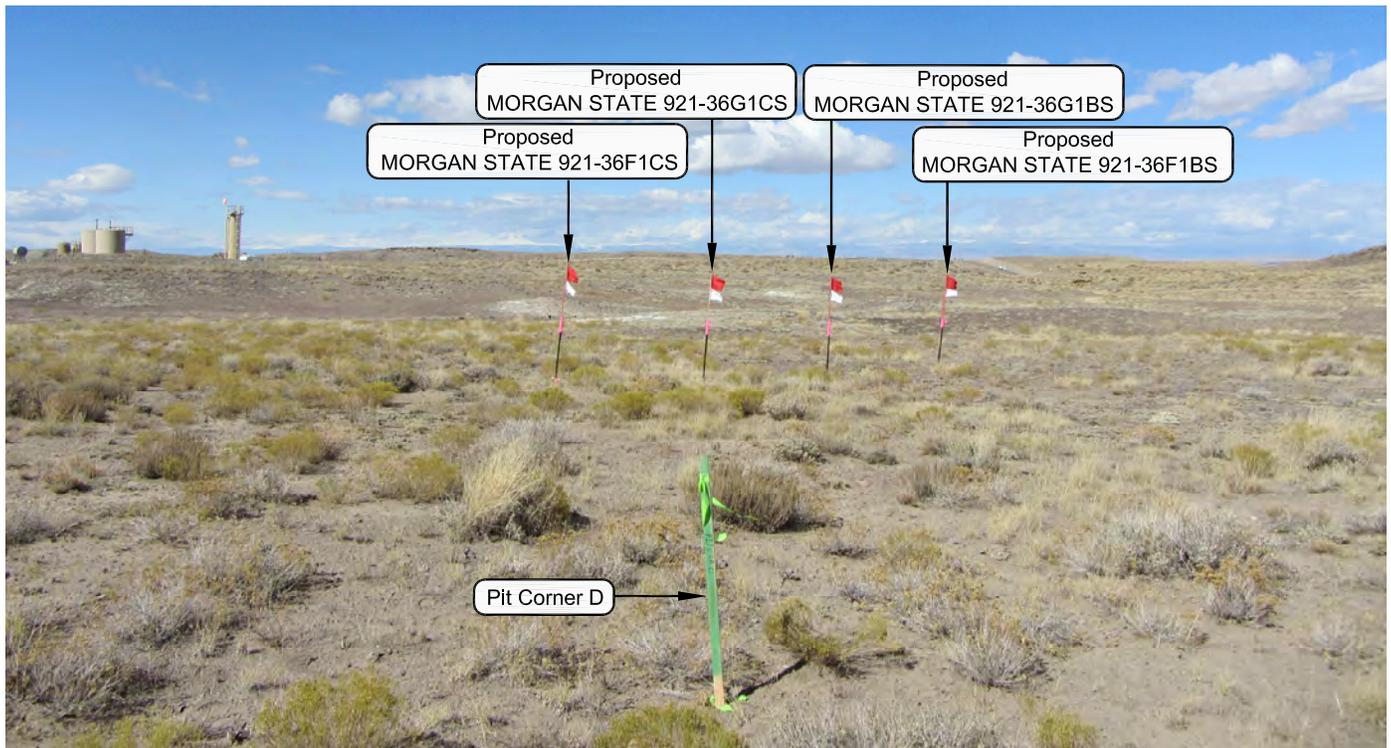


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: NORTHEASTERLY

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WELL PAD - MORGAN STATE 921-36F2

LOCATION PHOTOS
 MORGAN STATE 921-36F1BS,
 MORGAN STATE 921-36G1BS,
 MORGAN STATE 921-36G1CS &
 MORGAN STATE 921-36F1CS
 LOCATED IN SECTION 36, T9S, R21E,
 S.L.B.&M., UTAH COUNTY, UTAH.



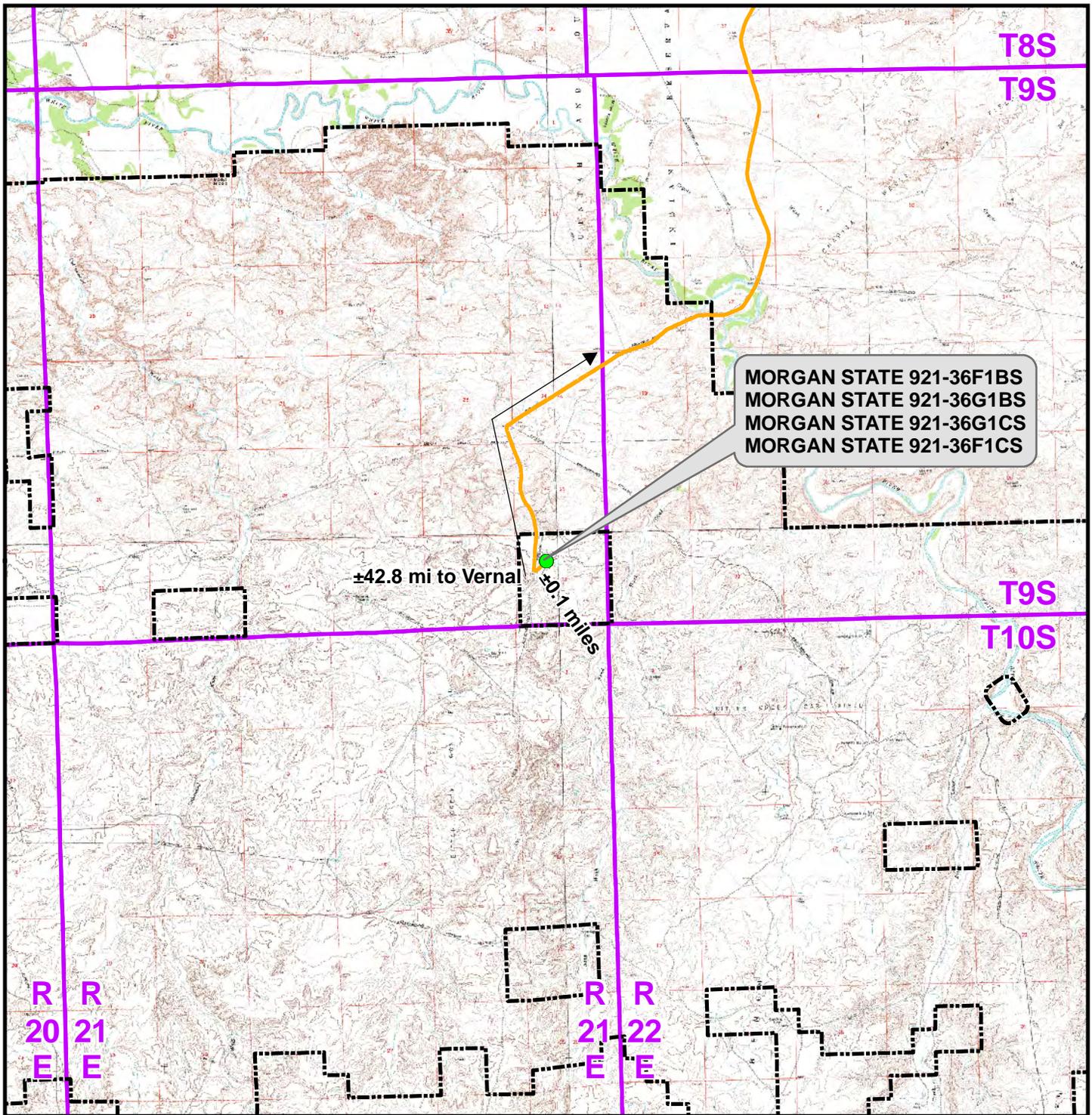
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DATE PHOTOS TAKEN: 10-11-10	PHOTOS TAKEN BY: J.W.	SHEET NO: 9 9 OF 16
DATE DRAWN: 10-29-10	DRAWN BY: T.J.R.	
Date Last Revised:		



MORGAN STATE 921-36F1BS
 MORGAN STATE 921-36G1BS
 MORGAN STATE 921-36G1CS
 MORGAN STATE 921-36F1CS

±42.8 mi to Vernal
 ±0.1 miles

Legend

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

Distance From Well Pad - MORGAN STATE 921-36F2 To Unit Boundary: ±1,512ft

WELL PAD - MORGAN STATE 921-36F2

TOPO A
 MORGAN STATE 921-36F1BS,
 MORGAN STATE 921-36G1BS,
 MORGAN STATE 921-36G1CS &
 MORGAN STATE 921-36F1CS
 LOCATED IN SECTION 36, T9S, R21E,
 S.L.B.&M., UINTAH COUNTY, UTAH

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

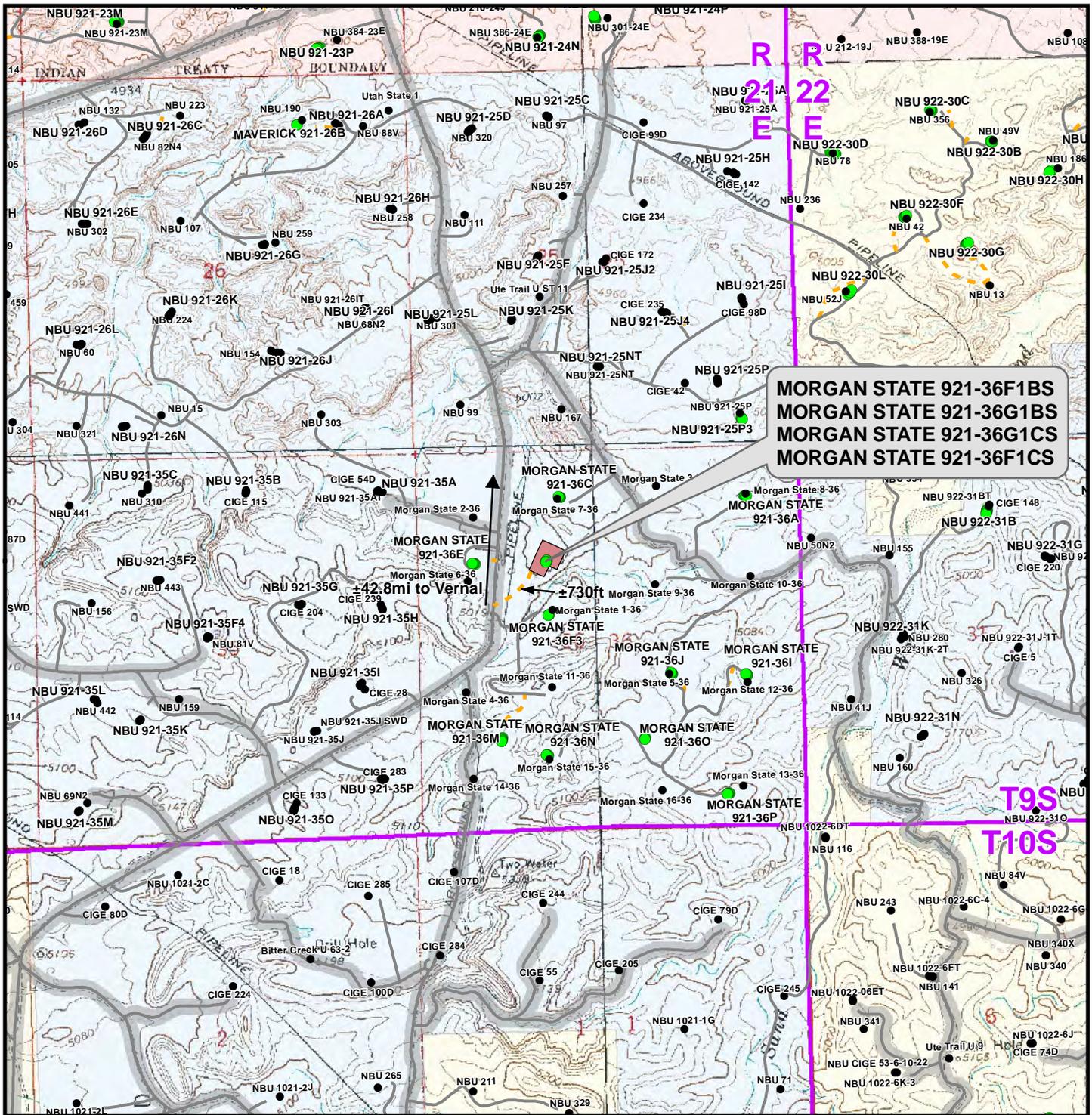
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SCALE: 1:100,000	NAD83 USP Central	10 10 OF 16
DRAWN: TL	DATE: 11 Nov 2011	
REVISED:	DATE:	



**MORGAN STATE 921-36F1BS
MORGAN STATE 921-36G1BS
MORGAN STATE 921-36G1CS
MORGAN STATE 921-36F1CS**

±730ft

±42.8mi to Vernal

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: ±730ft

WELL PAD - MORGAN STATE 921-36F2

**TOPO B
MORGAN STATE 921-36F1BS,
MORGAN STATE 921-36G1BS,
MORGAN STATE 921-36G1CS &
MORGAN STATE 921-36F1CS
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**



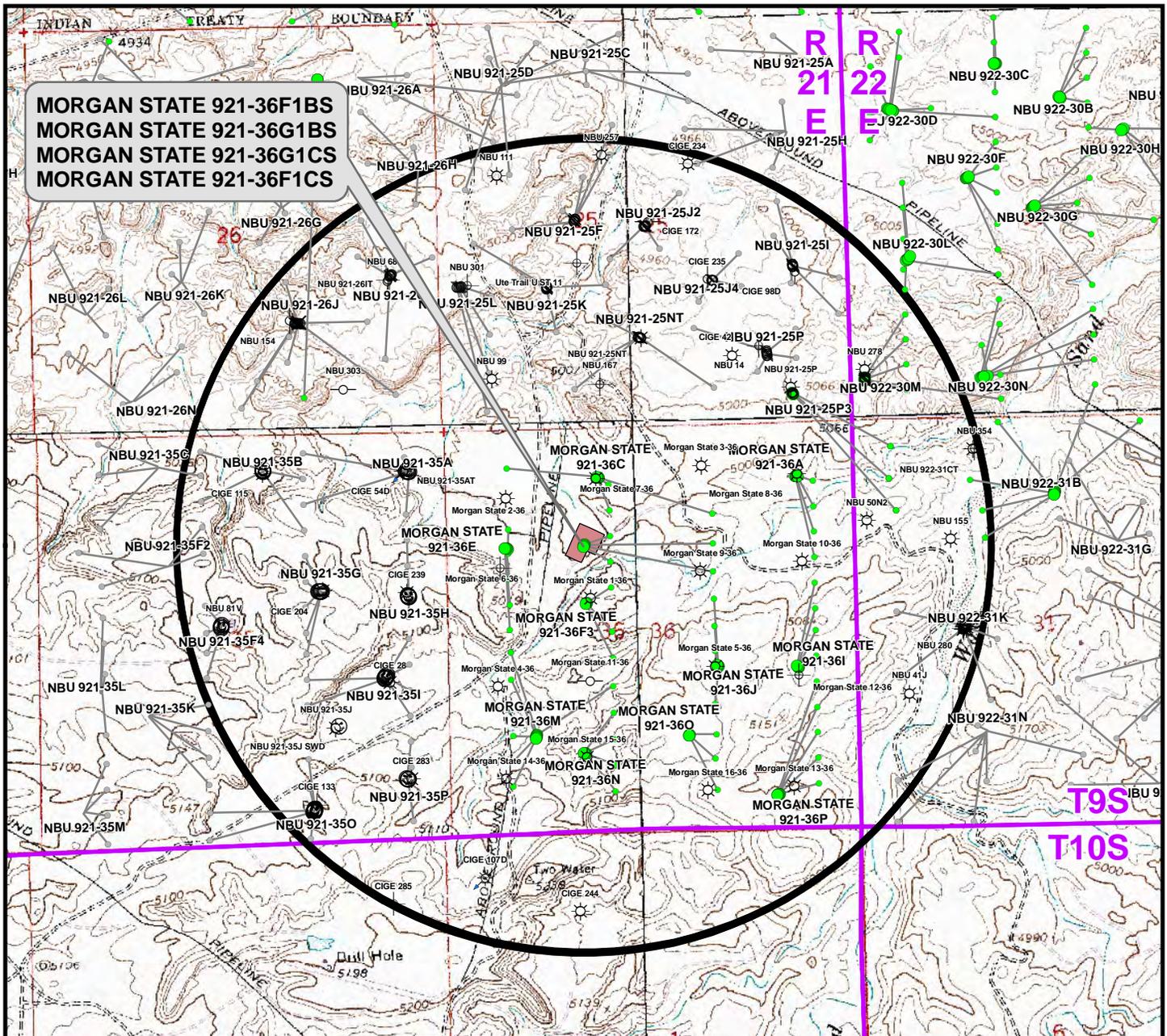
CONSULTING, LLC
2155 North Main Street
Sheridan, Wyoming 82801
Phone 307-674-0609
Fax 307-674-0182

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

SHEET NO:

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**MORGAN STATE 921-36F1BS
MORGAN STATE 921-36G1BS
MORGAN STATE 921-36G1CS
MORGAN STATE 921-36F1CS**

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 921-36F1BS	Morgan State 7-36	766ft
MORGAN STATE 921-36G1BS	Morgan State 9-36	393ft
MORGAN STATE 921-36G1CS	Morgan State 9-36	169ft
MORGAN STATE 921-36F1CS	Morgan State 1-36	540ft

Legend

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

WELL PAD - MORGAN STATE 921-36F2

TOPO C
MORGAN STATE 921-36F1BS,
MORGAN STATE 921-36G1BS,
MORGAN STATE 921-36G1CS &
MORGAN STATE 921-36F1CS
LOCATED IN SECTION 36, T9S, R21E,
S.L.B.&M., Uintah County, Utah

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

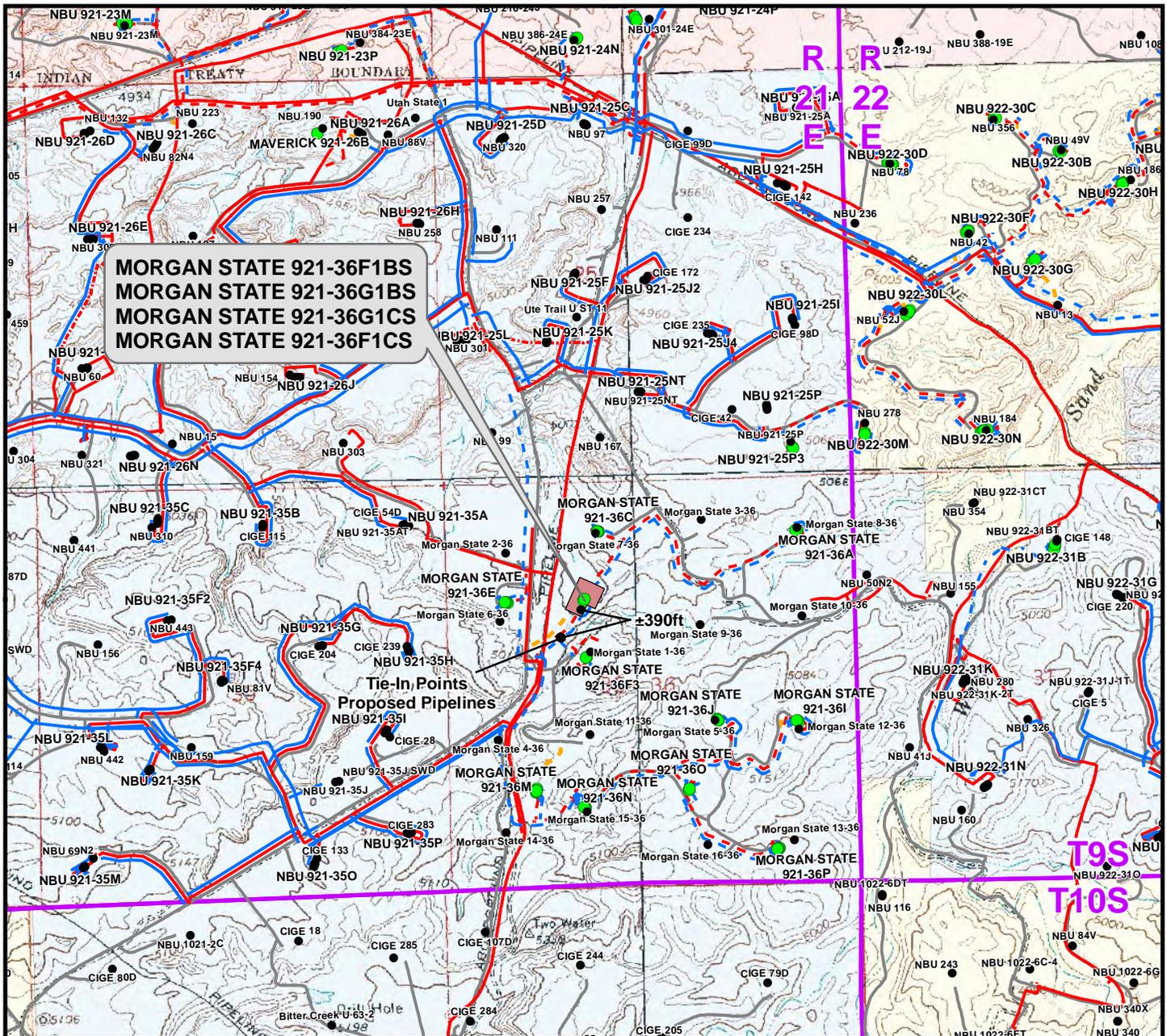
1099 18th Street
Denver, Colorado 80202

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

SHEET NO:
12 OF 16



Proposed Liquid Pipeline	Length	Proposed Gas Pipeline	Length
Buried 6" (Max.) (Meter House to 36C Intersection)	±60ft	Buried 6" (Meter House to 36C Intersection)	±60ft
Buried 6" (Max.) (36C Intersection to 36F3 Intersection)	±390ft	Buried 10" (36C Intersection to 36F3 Intersection)	±390ft
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±450ft	TOTAL PROPOSED BURIED GAS PIPELINE =	±450ft

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

WELL PAD - MORGAN STATE 921-36F2

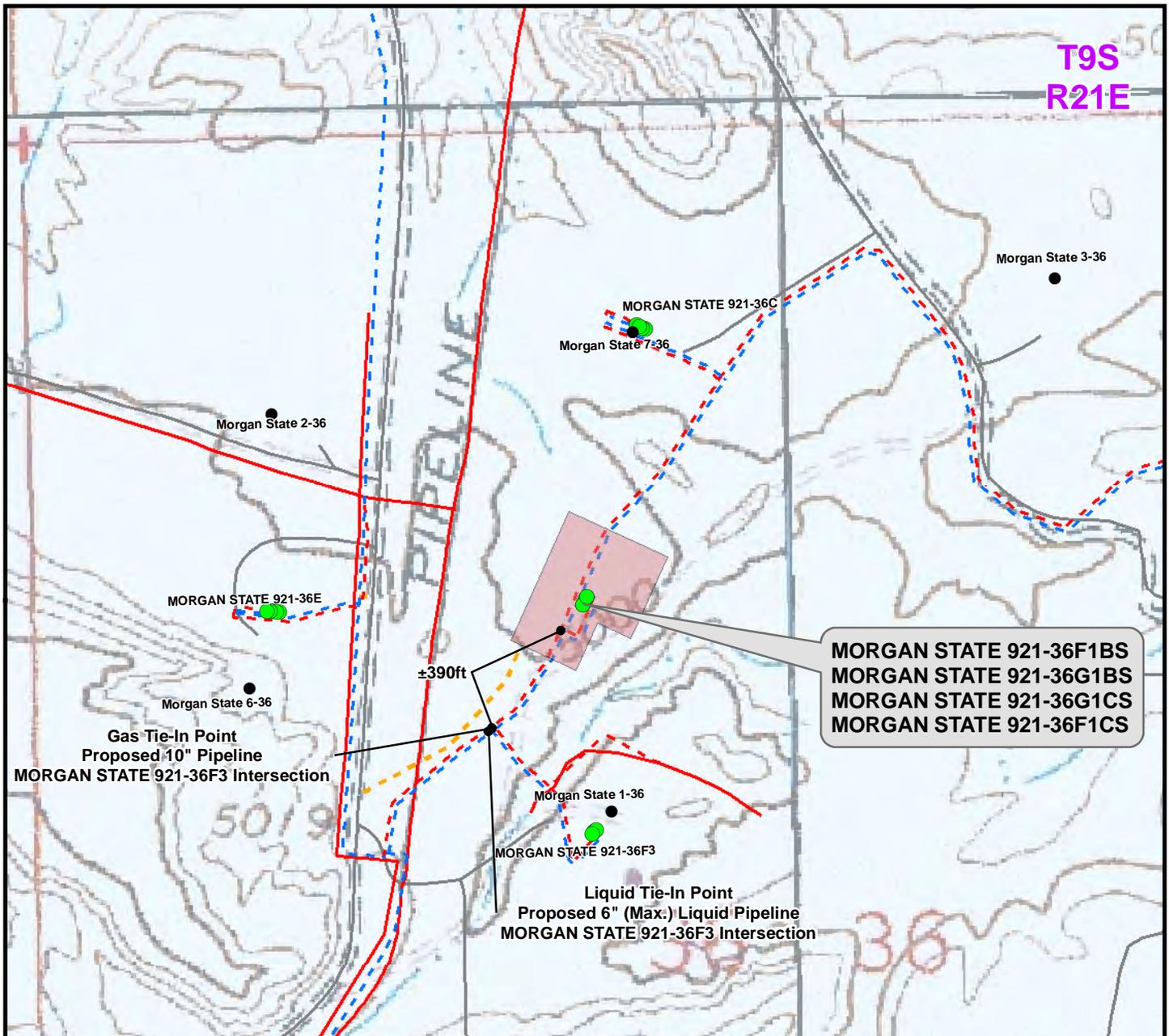
TOPO D
 MORGAN STATE 921-36F1BS,
 MORGAN STATE 921-36G1BS,
 MORGAN STATE 921-36G1CS &
 MORGAN STATE 921-36F1CS
 LOCATED IN SECTION 36, T9S, R21E,
 S.L.B.&M., Uintah County, Utah

**Kerr-McGee Oil &
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 Denver, Colorado 80202

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 2155 North Main Street
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SCALE: 1" = 2,000ft	NAD83 USP Central	13 13 OF 16
DRAWN: TL	DATE: 11 Nov 2011	
REVISED:	DATE:	



**MORGAN STATE 921-36F1BS
MORGAN STATE 921-36G1BS
MORGAN STATE 921-36G1CS
MORGAN STATE 921-36F1CS**

Proposed Liquid Pipeline	Length
Buried 6" (Max.) (Meter House to 36C Intersection)	±60ft
Buried 6" (Max.) (36C Intersection to 36F3 Intersection)	±390ft
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±450ft

Proposed Gas Pipeline	Length
Buried 6" (Meter House to 36C Intersection)	±60ft
Buried 10" (36C Intersection to 36F3 Intersection)	±390ft
TOTAL PROPOSED BURIED GAS PIPELINE =	±450ft

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 921-36F2

TOPO D2 (PAD & PIPELINE DETAIL)
MORGAN STATE 921-36F1BS,
MORGAN STATE 921-36G1BS,
MORGAN STATE 921-36G1CS &
MORGAN STATE 921-36F1CS
LOCATED IN SECTION 36, T9S, R21E,
S.L.B.&M., Uintah County, Utah

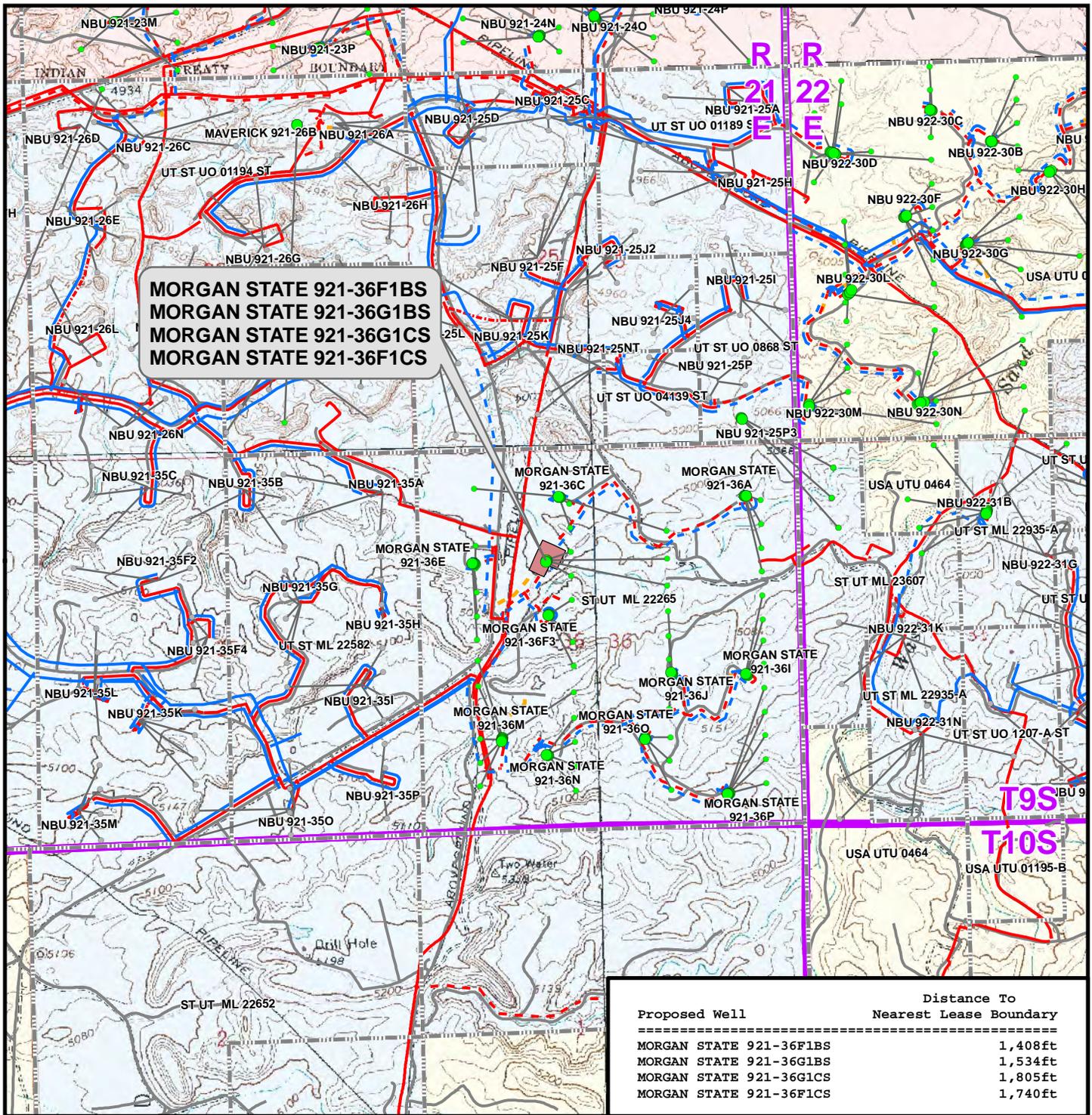
**Kerr-McGee Oil &
Gas Onshore L.P.**

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CONSULTING, LLC
2155 North Main Street
Sheridan, Wyoming 82801
Phone 307-674-0609
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SCALE: 1" = 500ft	NAD83 USP Central	14
DRAWN: TL	DATE: 11 Nov 2011	
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SHEET NO:
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**MORGAN STATE 921-36F1BS
MORGAN STATE 921-36G1BS
MORGAN STATE 921-36G1CS
MORGAN STATE 921-36F1CS**

Proposed Well	Distance To Nearest Lease Boundary
MORGAN STATE 921-36F1BS	1,408ft
MORGAN STATE 921-36G1BS	1,534ft
MORGAN STATE 921-36G1CS	1,805ft
MORGAN STATE 921-36F1CS	1,740ft

Legend

- Well - Proposed (Green dot)
- Bottom Hole - Proposed (Green circle)
- Well Pad (Red shaded area)
- Lease Boundary (Dashed line)
- Gas Pipeline - Proposed (Red dashed line)
- Gas Pipeline - To Be Upgraded (Red dotted line)
- Gas Pipeline - Existing (Red solid line)
- Liquid Pipeline - Proposed (Blue dashed line)
- Liquid Pipeline - Existing (Blue solid line)
- Road - Proposed (Yellow dashed line)
- Road - Existing (Grey solid line)
- Bureau of Land Management (Yellow shaded area)
- Indian Reservation (Red shaded area)
- State (Blue shaded area)
- Private (White shaded area)
- Well Path (Black line)

WELL PAD - MORGAN STATE 921-36F2

TOPO E
MORGAN STATE 921-36F1BS,
MORGAN STATE 921-36G1BS,
MORGAN STATE 921-36G1CS &
MORGAN STATE 921-36F1CS
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



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

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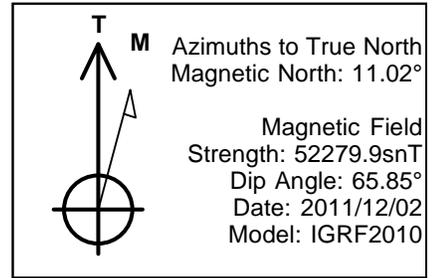
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DRAWN: TL	DATE: 11 Nov 2011	
REVISED:	DATE:	

SHEET NO:
15 OF 16

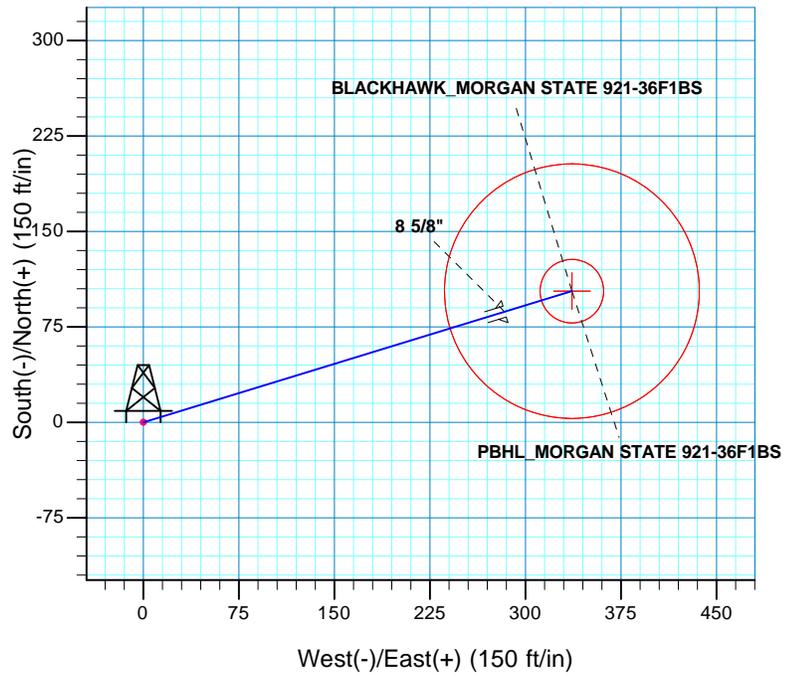
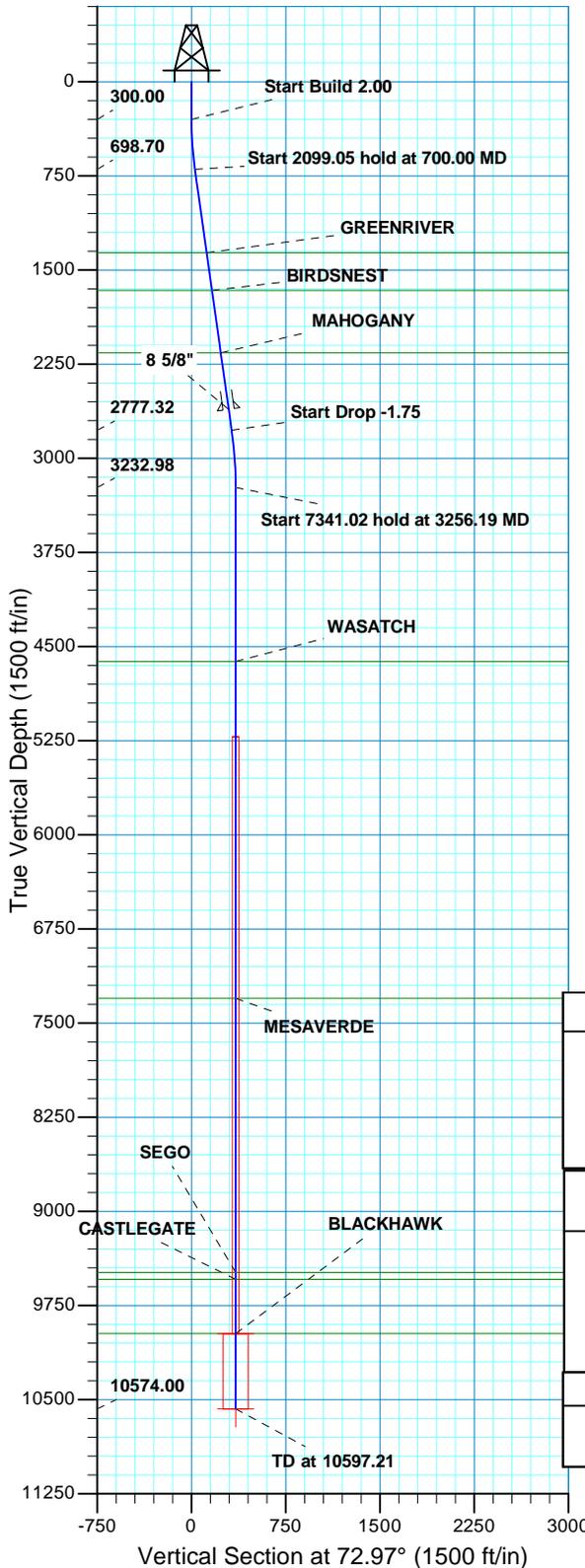
Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – MORGAN STATE 921-36F2
WELLS – MORGAN STATE 921-36F1BS, MORGAN STATE 921-36G1BS,
MORGAN STATE 921-36G1CS & MORGAN STATE 921-36F1CS
Section 36, T9S, R21E, S.L.B.&M.

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 19.3 miles to the proposed access road to the northeast. Follow road flags in a northeasterly direction approximately 730 feet to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 42.9 miles in a southerly direction.



WELL DETAILS: MORGAN STATE 921-36F1BS								
GL 4994 & KB 4 @ 4998.00ft (ASSUMED)								
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude			
0.00	0.00	14527976.04	2059883.11	39° 59' 44.257 N	109° 30' 8.435 W			
DESIGN TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
BLACKHAWK	9974.00	103.07	336.44	14528084.75	2060217.77	39° 59' 45.276 N	109° 30' 4.111 W	Circle (Radius: 25.00)
- plan hits target center								
PBHL	10574.00	103.07	336.44	14528084.75	2060217.77	39° 59' 45.276 N	109° 30' 4.111 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	
700.00	8.00	72.97	698.70	8.17	26.66	2.00	72.97	27.88	
2799.05	8.00	72.97	2777.32	93.74	305.97	0.00	0.00	320.01	
3256.19	0.00	0.00	3232.98	103.07	336.44	1.75	180.00	351.87	
10597.21	0.00	0.00	10574.00	103.07	336.44	0.00	0.00	351.87	PBHL_MORGAN STATE 921-36F1BS
PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N					FORMATION TOP DETAILS				
Geodetic System: Universal Transverse Mercator (US Survey Feet) Datum: NAD 1927 (NADCON CONUS) Ellipsoid: Clarke 1866 Zone: Zone 12N (114 W to 108 W) Location: SECTION 36 T9S R21E System Datum: Mean Sea Level					TVDPath	MDPath	Formation		
					1362.00	1369.82	GREENRIVER		
					1662.00	1672.77	BIRDSNEST		
					2161.00	2176.67	MAHOGANY		
					4619.00	4642.21	WASATCH		
					7303.00	7326.21	MESAVERDE		
9487.00	9510.21	SEGO							
9542.00	9565.21	CASTLEGATE							
9974.00	9997.21	BLACKHAWK							
CASING DETAILS									
TVD		MD		Name		Size			
2611.00		2631.09		8 5/8"		8.625			

RECEIVED :



Scientific Drilling
Rocky Mountain Operations

US ROCKIES REGION PLANNING

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

MORGAN STATE 921-36F2 PAD

MORGAN STATE 921-36F1BS

OH

Plan: PLAN #1 PRELIMINARY

Standard Planning Report

02 December, 2011





SDI
Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well MORGAN STATE 921-36F1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4994 & KB 4 @ 4998.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4994 & KB 4 @ 4998.00ft (ASSUMED)
Site:	MORGAN STATE 921-36F2 PAD	North Reference:	True
Well:	MORGAN STATE 921-36F1BS	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 921-36F2 PAD, SECTION 36 T9S R21E				
Site Position:	Northing:	14,527,976.05 usft	Latitude:	39° 59' 44.257 N	
From: Lat/Long	Easting:	2,059,883.10 usft	Longitude:	109° 30' 8.435 W	
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.96 °

Well	MORGAN STATE 921-36F1BS, 1512 FNL 1807 FWL					
Well Position	+N/-S	0.00 ft	Northing:	14,527,976.05 usft	Latitude:	39° 59' 44.257 N
	+E/-W	0.00 ft	Easting:	2,059,883.10 usft	Longitude:	109° 30' 8.435 W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,994.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2011/12/02	11.02	65.85	52,280

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	72.97

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	
700.00	8.00	72.97	698.70	8.17	26.66	2.00	2.00	0.00	72.97	
2,799.05	8.00	72.97	2,777.32	93.74	305.97	0.00	0.00	0.00	0.00	
3,256.19	0.00	0.00	3,232.98	103.07	336.44	1.75	-1.75	0.00	180.00	
10,597.21	0.00	0.00	10,574.00	103.07	336.44	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 921-36F1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4994 & KB 4 @ 4998.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4994 & KB 4 @ 4998.00ft (ASSUMED)
Site:	MORGAN STATE 921-36F2 PAD	North Reference:	True
Well:	MORGAN STATE 921-36F1BS	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	72.97	399.98	0.51	1.67	1.75	2.00	2.00	2.00	0.00
500.00	4.00	72.97	499.84	2.04	6.67	6.98	2.00	2.00	2.00	0.00
600.00	6.00	72.97	599.45	4.60	15.01	15.69	2.00	2.00	2.00	0.00
700.00	8.00	72.97	698.70	8.17	26.66	27.88	2.00	2.00	2.00	0.00
Start 2099.05 hold at 700.00 MD										
800.00	8.00	72.97	797.73	12.24	39.96	41.80	0.00	0.00	0.00	0.00
900.00	8.00	72.97	896.76	16.32	53.27	55.71	0.00	0.00	0.00	0.00
1,000.00	8.00	72.97	995.78	20.40	66.58	69.63	0.00	0.00	0.00	0.00
1,100.00	8.00	72.97	1,094.81	24.47	79.88	83.55	0.00	0.00	0.00	0.00
1,200.00	8.00	72.97	1,193.84	28.55	93.19	97.47	0.00	0.00	0.00	0.00
1,300.00	8.00	72.97	1,292.86	32.63	106.50	111.38	0.00	0.00	0.00	0.00
1,369.82	8.00	72.97	1,362.00	35.47	115.79	121.10	0.00	0.00	0.00	0.00
GREENRIVER										
1,400.00	8.00	72.97	1,391.89	36.70	119.80	125.30	0.00	0.00	0.00	0.00
1,500.00	8.00	72.97	1,490.92	40.78	133.11	139.22	0.00	0.00	0.00	0.00
1,600.00	8.00	72.97	1,589.94	44.86	146.42	153.14	0.00	0.00	0.00	0.00
1,672.77	8.00	72.97	1,662.00	47.82	156.10	163.26	0.00	0.00	0.00	0.00
BIRDSNEST										
1,700.00	8.00	72.97	1,688.97	48.93	159.73	167.05	0.00	0.00	0.00	0.00
1,800.00	8.00	72.97	1,788.00	53.01	173.03	180.97	0.00	0.00	0.00	0.00
1,900.00	8.00	72.97	1,887.02	57.09	186.34	194.89	0.00	0.00	0.00	0.00
2,000.00	8.00	72.97	1,986.05	61.16	199.65	208.80	0.00	0.00	0.00	0.00
2,100.00	8.00	72.97	2,085.08	65.24	212.95	222.72	0.00	0.00	0.00	0.00
2,176.67	8.00	72.97	2,161.00	68.37	223.15	233.39	0.00	0.00	0.00	0.00
MAHOGANY										
2,200.00	8.00	72.97	2,184.10	69.32	226.26	236.64	0.00	0.00	0.00	0.00
2,300.00	8.00	72.97	2,283.13	73.39	239.57	250.56	0.00	0.00	0.00	0.00
2,400.00	8.00	72.97	2,382.16	77.47	252.87	264.47	0.00	0.00	0.00	0.00
2,500.00	8.00	72.97	2,481.18	81.55	266.18	278.39	0.00	0.00	0.00	0.00
2,600.00	8.00	72.97	2,580.21	85.62	279.49	292.31	0.00	0.00	0.00	0.00
2,631.09	8.00	72.97	2,611.00	86.89	283.62	296.64	0.00	0.00	0.00	0.00
8 5/8"										
2,700.00	8.00	72.97	2,679.24	89.70	292.79	306.23	0.00	0.00	0.00	0.00
2,799.05	8.00	72.97	2,777.32	93.74	305.97	320.01	0.00	0.00	0.00	0.00
Start Drop -1.75										
2,800.00	7.98	72.97	2,778.26	93.78	306.10	320.14	1.75	-1.75	0.00	0.00
2,900.00	6.23	72.97	2,877.49	97.40	317.93	332.52	1.75	-1.75	0.00	0.00
3,000.00	4.48	72.97	2,977.05	100.14	326.86	341.86	1.75	-1.75	0.00	0.00
3,100.00	2.73	72.97	3,076.85	101.98	332.88	348.15	1.75	-1.75	0.00	0.00
3,200.00	0.98	72.97	3,176.79	102.93	335.98	351.39	1.75	-1.75	0.00	0.00
3,256.19	0.00	0.00	3,232.98	103.07	336.44	351.87	1.75	-1.75	0.00	0.00
Start 7341.02 hold at 3256.19 MD										
3,300.00	0.00	0.00	3,276.79	103.07	336.44	351.87	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,376.79	103.07	336.44	351.87	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,476.79	103.07	336.44	351.87	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,576.79	103.07	336.44	351.87	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,676.79	103.07	336.44	351.87	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,776.79	103.07	336.44	351.87	0.00	0.00	0.00	0.00



SDI
Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well MORGAN STATE 921-36F1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4994 & KB 4 @ 4998.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4994 & KB 4 @ 4998.00ft (ASSUMED)
Site:	MORGAN STATE 921-36F2 PAD	North Reference:	True
Well:	MORGAN STATE 921-36F1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,900.00	0.00	0.00	3,876.79	103.07	336.44	351.87	0.00	0.00	0.00
4,000.00	0.00	0.00	3,976.79	103.07	336.44	351.87	0.00	0.00	0.00
4,100.00	0.00	0.00	4,076.79	103.07	336.44	351.87	0.00	0.00	0.00
4,200.00	0.00	0.00	4,176.79	103.07	336.44	351.87	0.00	0.00	0.00
4,300.00	0.00	0.00	4,276.79	103.07	336.44	351.87	0.00	0.00	0.00
4,400.00	0.00	0.00	4,376.79	103.07	336.44	351.87	0.00	0.00	0.00
4,500.00	0.00	0.00	4,476.79	103.07	336.44	351.87	0.00	0.00	0.00
4,600.00	0.00	0.00	4,576.79	103.07	336.44	351.87	0.00	0.00	0.00
4,642.21	0.00	0.00	4,619.00	103.07	336.44	351.87	0.00	0.00	0.00
WASATCH									
4,700.00	0.00	0.00	4,676.79	103.07	336.44	351.87	0.00	0.00	0.00
4,800.00	0.00	0.00	4,776.79	103.07	336.44	351.87	0.00	0.00	0.00
4,900.00	0.00	0.00	4,876.79	103.07	336.44	351.87	0.00	0.00	0.00
5,000.00	0.00	0.00	4,976.79	103.07	336.44	351.87	0.00	0.00	0.00
5,100.00	0.00	0.00	5,076.79	103.07	336.44	351.87	0.00	0.00	0.00
5,200.00	0.00	0.00	5,176.79	103.07	336.44	351.87	0.00	0.00	0.00
5,300.00	0.00	0.00	5,276.79	103.07	336.44	351.87	0.00	0.00	0.00
5,400.00	0.00	0.00	5,376.79	103.07	336.44	351.87	0.00	0.00	0.00
5,500.00	0.00	0.00	5,476.79	103.07	336.44	351.87	0.00	0.00	0.00
5,600.00	0.00	0.00	5,576.79	103.07	336.44	351.87	0.00	0.00	0.00
5,700.00	0.00	0.00	5,676.79	103.07	336.44	351.87	0.00	0.00	0.00
5,800.00	0.00	0.00	5,776.79	103.07	336.44	351.87	0.00	0.00	0.00
5,900.00	0.00	0.00	5,876.79	103.07	336.44	351.87	0.00	0.00	0.00
6,000.00	0.00	0.00	5,976.79	103.07	336.44	351.87	0.00	0.00	0.00
6,100.00	0.00	0.00	6,076.79	103.07	336.44	351.87	0.00	0.00	0.00
6,200.00	0.00	0.00	6,176.79	103.07	336.44	351.87	0.00	0.00	0.00
6,300.00	0.00	0.00	6,276.79	103.07	336.44	351.87	0.00	0.00	0.00
6,400.00	0.00	0.00	6,376.79	103.07	336.44	351.87	0.00	0.00	0.00
6,500.00	0.00	0.00	6,476.79	103.07	336.44	351.87	0.00	0.00	0.00
6,600.00	0.00	0.00	6,576.79	103.07	336.44	351.87	0.00	0.00	0.00
6,700.00	0.00	0.00	6,676.79	103.07	336.44	351.87	0.00	0.00	0.00
6,800.00	0.00	0.00	6,776.79	103.07	336.44	351.87	0.00	0.00	0.00
6,900.00	0.00	0.00	6,876.79	103.07	336.44	351.87	0.00	0.00	0.00
7,000.00	0.00	0.00	6,976.79	103.07	336.44	351.87	0.00	0.00	0.00
7,100.00	0.00	0.00	7,076.79	103.07	336.44	351.87	0.00	0.00	0.00
7,200.00	0.00	0.00	7,176.79	103.07	336.44	351.87	0.00	0.00	0.00
7,300.00	0.00	0.00	7,276.79	103.07	336.44	351.87	0.00	0.00	0.00
7,326.21	0.00	0.00	7,303.00	103.07	336.44	351.87	0.00	0.00	0.00
MESAVERDE									
7,400.00	0.00	0.00	7,376.79	103.07	336.44	351.87	0.00	0.00	0.00
7,500.00	0.00	0.00	7,476.79	103.07	336.44	351.87	0.00	0.00	0.00
7,600.00	0.00	0.00	7,576.79	103.07	336.44	351.87	0.00	0.00	0.00
7,700.00	0.00	0.00	7,676.79	103.07	336.44	351.87	0.00	0.00	0.00
7,800.00	0.00	0.00	7,776.79	103.07	336.44	351.87	0.00	0.00	0.00
7,900.00	0.00	0.00	7,876.79	103.07	336.44	351.87	0.00	0.00	0.00
8,000.00	0.00	0.00	7,976.79	103.07	336.44	351.87	0.00	0.00	0.00
8,100.00	0.00	0.00	8,076.79	103.07	336.44	351.87	0.00	0.00	0.00
8,200.00	0.00	0.00	8,176.79	103.07	336.44	351.87	0.00	0.00	0.00
8,300.00	0.00	0.00	8,276.79	103.07	336.44	351.87	0.00	0.00	0.00
8,400.00	0.00	0.00	8,376.79	103.07	336.44	351.87	0.00	0.00	0.00
8,500.00	0.00	0.00	8,476.79	103.07	336.44	351.87	0.00	0.00	0.00
8,600.00	0.00	0.00	8,576.79	103.07	336.44	351.87	0.00	0.00	0.00
8,700.00	0.00	0.00	8,676.79	103.07	336.44	351.87	0.00	0.00	0.00
8,800.00	0.00	0.00	8,776.79	103.07	336.44	351.87	0.00	0.00	0.00



SDI
Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well MORGAN STATE 921-36F1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4994 & KB 4 @ 4998.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4994 & KB 4 @ 4998.00ft (ASSUMED)
Site:	MORGAN STATE 921-36F2 PAD	North Reference:	True
Well:	MORGAN STATE 921-36F1BS	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)
8,900.00	0.00	0.00	8,876.79	103.07	336.44	351.87	0.00	0.00	0.00
9,000.00	0.00	0.00	8,976.79	103.07	336.44	351.87	0.00	0.00	0.00
9,100.00	0.00	0.00	9,076.79	103.07	336.44	351.87	0.00	0.00	0.00
9,200.00	0.00	0.00	9,176.79	103.07	336.44	351.87	0.00	0.00	0.00
9,300.00	0.00	0.00	9,276.79	103.07	336.44	351.87	0.00	0.00	0.00
9,400.00	0.00	0.00	9,376.79	103.07	336.44	351.87	0.00	0.00	0.00
9,500.00	0.00	0.00	9,476.79	103.07	336.44	351.87	0.00	0.00	0.00
9,510.21	0.00	0.00	9,487.00	103.07	336.44	351.87	0.00	0.00	0.00
SEGO									
9,565.21	0.00	0.00	9,542.00	103.07	336.44	351.87	0.00	0.00	0.00
CASTLEGATE									
9,600.00	0.00	0.00	9,576.79	103.07	336.44	351.87	0.00	0.00	0.00
9,700.00	0.00	0.00	9,676.79	103.07	336.44	351.87	0.00	0.00	0.00
9,800.00	0.00	0.00	9,776.79	103.07	336.44	351.87	0.00	0.00	0.00
9,900.00	0.00	0.00	9,876.79	103.07	336.44	351.87	0.00	0.00	0.00
9,997.21	0.00	0.00	9,974.00	103.07	336.44	351.87	0.00	0.00	0.00
BLACKHAWK - BLACKHAWK_MORGAN STATE 921-36F1BS									
10,000.00	0.00	0.00	9,976.79	103.07	336.44	351.87	0.00	0.00	0.00
10,100.00	0.00	0.00	10,076.79	103.07	336.44	351.87	0.00	0.00	0.00
10,200.00	0.00	0.00	10,176.79	103.07	336.44	351.87	0.00	0.00	0.00
10,300.00	0.00	0.00	10,276.79	103.07	336.44	351.87	0.00	0.00	0.00
10,400.00	0.00	0.00	10,376.79	103.07	336.44	351.87	0.00	0.00	0.00
10,500.00	0.00	0.00	10,476.79	103.07	336.44	351.87	0.00	0.00	0.00
10,597.21	0.00	0.00	10,574.00	103.07	336.44	351.87	0.00	0.00	0.00
TD at 10597.21 - PBHL_MORGAN STATE 921-36F1BS									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BLACKHAWK_MORGAI - hit/miss target - Shape	0.00	0.00	9,974.00	103.07	336.44	14,528,084.76	2,060,217.76	39° 59' 45.276 N	109° 30' 4.111 W
PBHL_MORGAN STATI - plan hits target center - Circle (radius 100.00)	0.00	0.00	10,574.00	103.07	336.44	14,528,084.76	2,060,217.76	39° 59' 45.276 N	109° 30' 4.111 W

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,631.09	2,611.00	8 5/8"	8.625	11.000	



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well MORGAN STATE 921-36F1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4994 & KB 4 @ 4998.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4994 & KB 4 @ 4998.00ft (ASSUMED)
Site:	MORGAN STATE 921-36F2 PAD	North Reference:	True
Well:	MORGAN STATE 921-36F1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,369.82	1,362.00	GREENRIVER				
1,672.77	1,662.00	BIRDSNEST				
2,176.67	2,161.00	MAHOGANY				
4,642.21	4,619.00	WASATCH				
7,326.21	7,303.00	MESAVERDE				
9,510.21	9,487.00	SEGO				
9,565.21	9,542.00	CASTLEGATE				
9,997.21	9,974.00	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	
700.00	698.70	8.17	26.66	Start 2099.05 hold at 700.00 MD	
2,799.05	2,777.32	93.74	305.97	Start Drop -1.75	
3,256.19	3,232.98	103.07	336.44	Start 7341.02 hold at 3256.19 MD	
10,597.21	10,574.00	103.07	336.44	TD at 10597.21	

MORGAN STATE 921-36F1BS

Surface:	1512 FNL / 1807 FWL	SENW	Lot
BHL:	1408 FNL / 2144 FWL	SENW	Lot

MORGAN STATE 921-36F1CS

Surface:	1539 FNL / 1794 FWL	SENW	Lot
BHL:	1740 FNL / 2144 FWL	SENW	Lot

MORGAN STATE 921-36G1BS

Surface:	1521 FNL / 1803 FWL	SENW	Lot
BHL:	1534 FNL / 1799 FEL	SWNE	Lot

MORGAN STATE 921-36G1CS

Surface:	1530 FNL / 1799 FWL	SENW	Lot
BHL:	1898 FNL / 1805 FEL	SWNE	Lot

Pad: MORGAN STATE 921-36F2 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:

Approximately $\pm 730'$ (0.1 miles) of 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:

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 $\pm 450'$ and the individual segments are broken up as follows:

- ±60' (0.01 miles) –New 6” buried gas pipeline from the meter to the 921-36C intersection. Please refer to Topo D2 - Pad and Pipeline Detail.
- ±390' (0.1 miles) –New 10” buried gas pipeline from the 921-36C intersection to the 921-36F3 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 ±450’ and the individual segments are broken up as follows:

- ±60' (0.01 miles) –New 6” buried liquid pipeline from the separator to the 921-36C intersection. Please refer to Topo D2 - Pad and Pipeline Detail.
- ±390' (0.1 miles) –New 6” buried liquid pipeline from the 921-36C intersection to the 921-36F3 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 921-36F1BS
T9S-R21E
Section 36: SENW (Surface), SENW (Bottom Hole)
Surface: 1512' FNL, 1807' FWL
Bottom Hole: 1408' FNL, 2144' 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

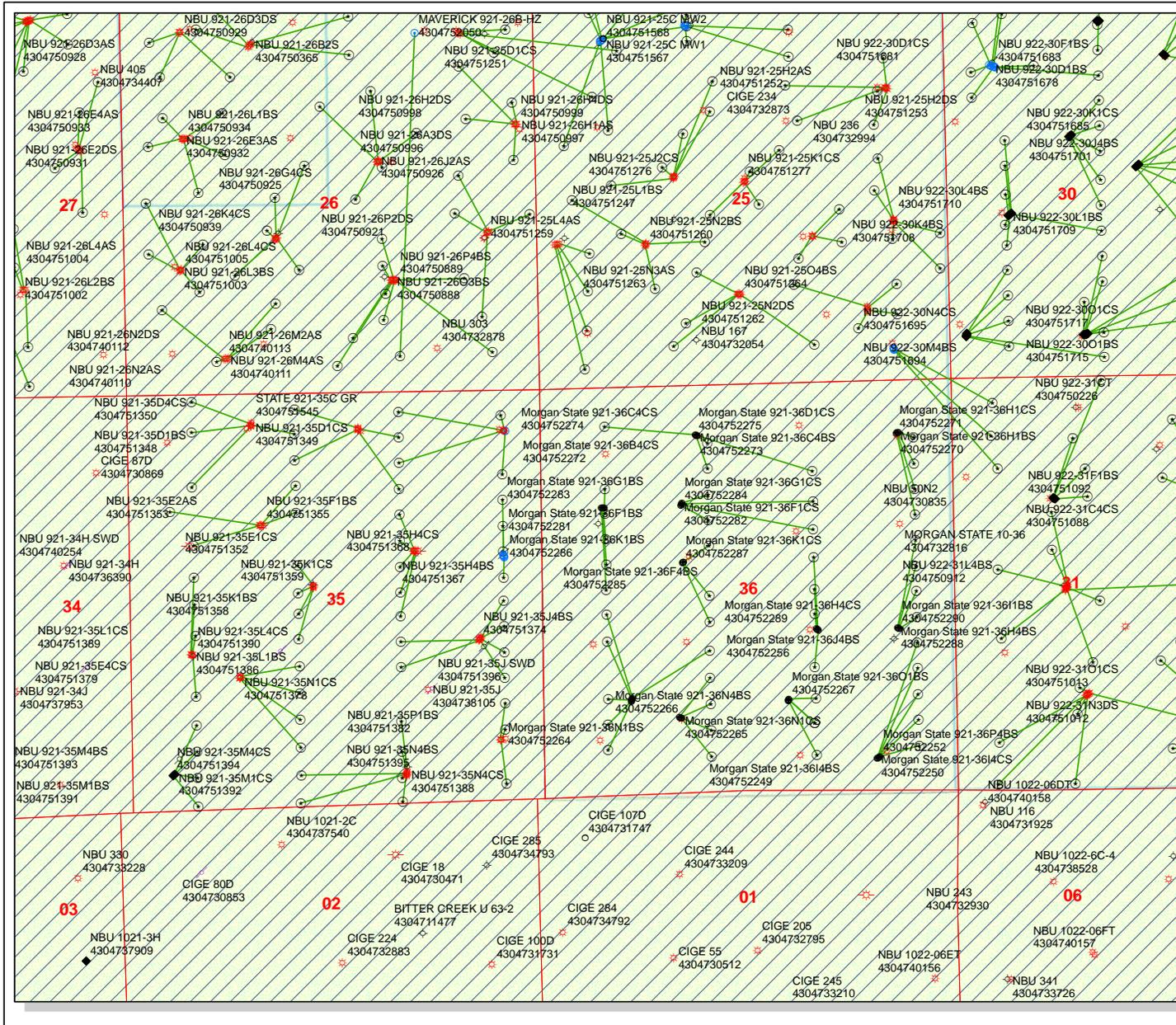
API Well Number: 43047522810000

Phone: (801) 538-5156

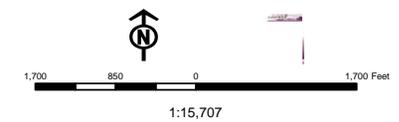
RECEIVED: February 23, 2012

API Number: 4304752281
Well Name: Morgan State 921-36F1BS
 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 | DRL - 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 | WW - Water Injection Well |
| STORAGE | WSW - Water Supply Well |
| TERMINATED | |



Well Name	KERR-MCGEE OIL & GAS ONSHORE, L.P. Morgan State 921-36F1BS 4			
String	Surf	Prod		
Casing Size(")	8.625	4.500		
Setting Depth (TVD)	2590	10574		
Previous Shoe Setting Depth (TVD)	0	2590		
Max Mud Weight (ppg)	8.4	13.0		
BOPE Proposed (psi)	500	5000		
Casing Internal Yield (psi)	3390	10690		
Operators Max Anticipated Pressure (psi)	6979	12.7		

Calculations	Surf String	8.625	"
Max BHP (psi)	.052*Setting Depth*MW=	1131	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	820	NO <input type="checkbox"/> air drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	561	NO <input type="checkbox"/> Reasonable depth
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	561	NO <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		2373	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

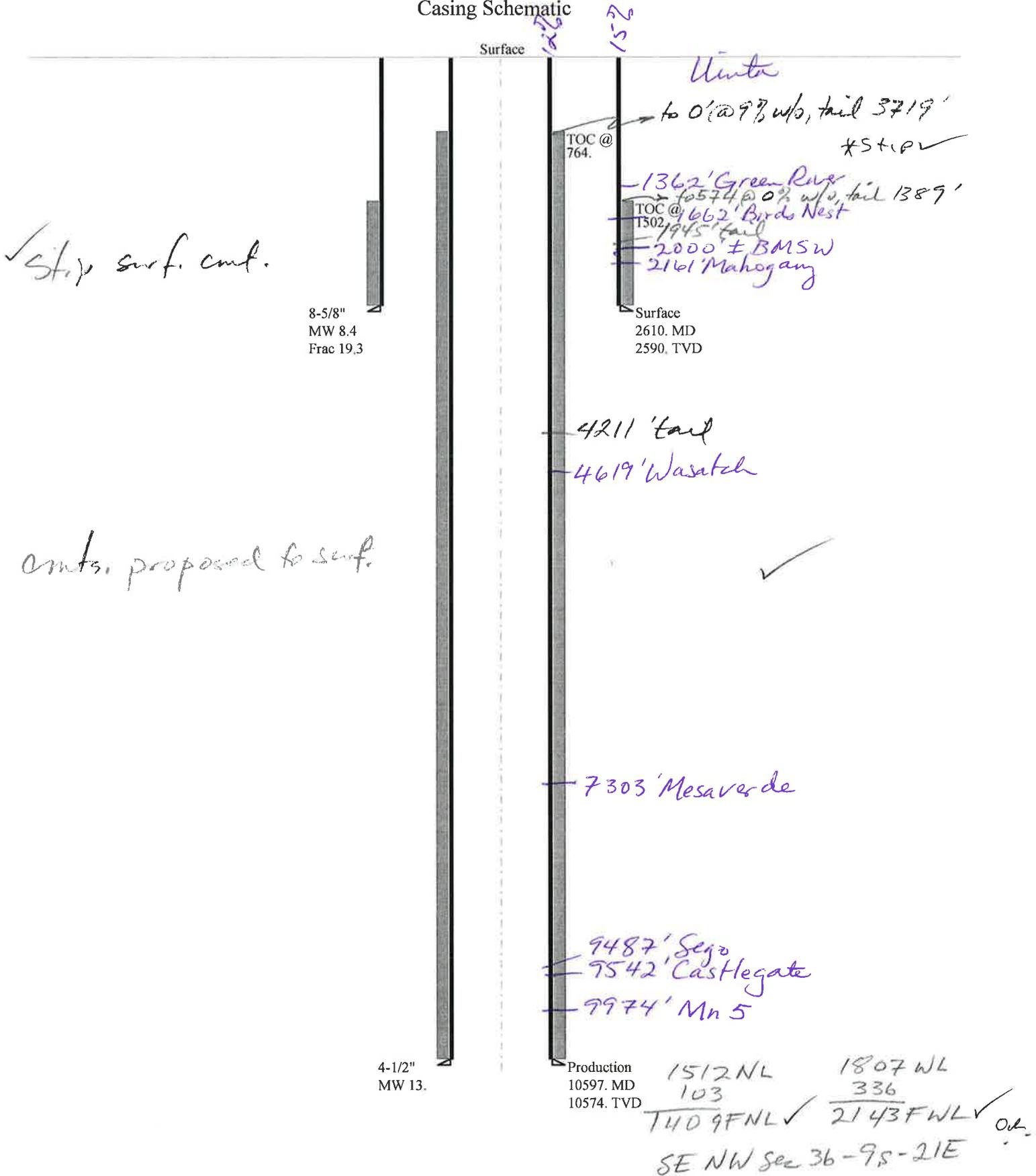
Calculations	Prod String	4.500	"
Max BHP (psi)	.052*Setting Depth*MW=	7148	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	5879	NO <input type="checkbox"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	4822	YES <input type="checkbox"/> OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	5392	NO <input type="checkbox"/> Reasonable
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2590	psi *Assumes 1psi/ft frac gradient

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

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

43047522810000 Morgan State 921-36F1BS

Casing Schematic



Well name:	43047522810000 Morgan State 921-36F1BS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Surface	Project ID:	43-047-52281
Location:	UINTAH	COUNTY	

Design parameters:**Collapse**

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

Burst

Max anticipated surface pressure: 2,279 psi
Internal gradient: 0.120 psi/ft
Calculated BHP: 2,590 psi

No backup mud specified.

Minimum design factors:**Collapse:**

Design factor: 1.125

Burst:

Design factor: 1.00

Tension:

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

Tension is based on air weight.

Neutral point: 2,286 ft

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: 1,502 ft

Directional Info - Build & Drop

Kick-off point: 300 ft
Departure at shoe: 294 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 8 °

Re subsequent strings:

Next setting depth: 10,574 ft
Next mud weight: 13.000 ppg
Next setting BHP: 7,141 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,590 ft
Injection pressure: 2,590 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	2610	8.625	28.00	I-55	LT&C	2590	2610	7.892	103356
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	1130	1880	1.663	2590	3390	1.31	72.5	348	4.80 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 2590 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

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

Well name:	43047522810000 Morgan State 921-36F1BS	
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.	
String type:	Production	Project ID: 43-047-52281
Location:	UINTAH COUNTY	

Design parameters:**Collapse**

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

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 222 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft
Cement top: 764 ft

Burst

Max anticipated surface pressure: 4,815 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 7,141 psi

No backup mud specified.

Tension:

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

Tension is based on air weight.
Neutral point: 8,542 ft

Directional Info - Build & Drop

Kick-off point 300 ft
Departure at shoe: 352 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 0 °

Estimated cost: 158,966 (\$)

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	4977	5000	3.875	132000
1	5597	4.5	11.60	HCP-110	LT&C	10574	10597	3.875	26966

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	3361	8125	2.418	5909	10690	1.81	122.7	367.2	2.99 B
1	7141	8650	1.211	7141	10690	1.50	64.9	279	4.30 J

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

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

Date: March 5, 2012
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 10574 ft, a mud weight of 13 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

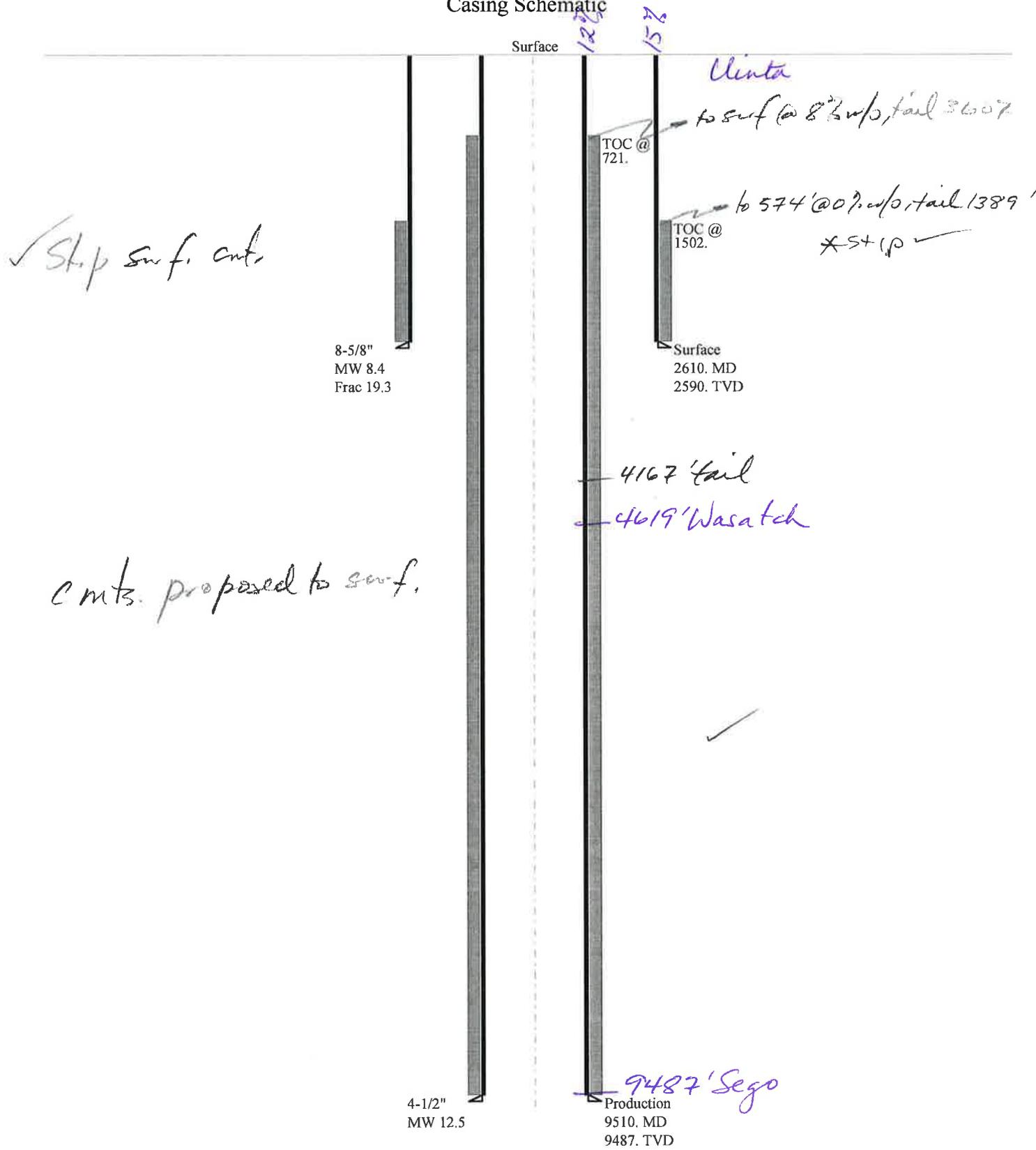
Burst strength is not adjusted for tension.

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

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

43047522810000 Morgan State 921-36F1BS

Casing Schematic



Well name:	43047522810000 Morgan State 921-36F1BS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Surface	Project ID:	43-047-52281
Location:	UINTAH	COUNTY	

Design parameters:**Collapse**

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

Burst

Max anticipated surface pressure: 2,279 psi
Internal gradient: 0.120 psi/ft
Calculated BHP: 2,590 psi

No backup mud specified.

Minimum design factors:**Collapse:**

Design factor: 1.125

Burst:

Design factor: 1.00

Tension:

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

Tension is based on air weight.
Neutral point: 2,286 ft

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: 1,502 ft

Directional Info - Build & Drop

Kick-off point: 300 ft
Departure at shoe: 294 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 8 °

Re subsequent strings:

Next setting depth: 9,487 ft
Next mud weight: 12.500 ppg
Next setting BHP: 6,160 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,590 ft
Injection pressure: 2,590 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	2610	8.625	28.00	I-55	LT&C	2590	2610	7.892	103356
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	1130	1880	1.663	2590	3390	1.31	72.5	348	4.80 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 2590 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

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

Well name:	43047522810000 Morgan State 921-36F1BS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Production	Project ID:	43-047-52281
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: 207 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 721 ft

Burst

Max anticipated surface pressure: 4,073 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 6,160 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: 352 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 0 °

Tension is based on air weight.
Neutral point: 7,737 ft

Estimated cost: 191,532 (\$)

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	4977	5000	3.875	132000
1	4510	4.5	11.60	I-80	LT&C	9487	9510	3.875	59532

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	2844	5912	2.079	5168	7780	1.51	110	267	2.43 J
1	5421	6360	1.173	6160	7780	1.26	52.3	212	4.05 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 9487 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

DWR had no comment / issues

Soil Type and Characteristics

very flaggy loams and clastic basalts

Erosion Issues N

Sedimentation Issues Y

hevy rain fall or early spring melt could transport unconsolidated sediments off location

Site Stability Issues N

Drainage Diverson Required? N

Berm Required? N

Erosion Sedimentation Control Required? N

while the soils are suseptible to ersion the topography of the pad footprint is flat and drainages are an acceptable distance away

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

Reserve Pit

Site-Specific Factors

Site Ranking

Distance to Groundwater (feet)	100 to 200	5
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	300 to 1320	10
Native Soil Type	High permeability	20
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)	10 to 20	5
Affected Populations		
Presence Nearby Utility Conduits	Unknown	10
Final Score		55

1 Sensitivity Level

Characteristics / Requirements

pit to be dug to a depth of 12'. Because of clastic basalts and sandstone observed on site at the surface , the potential exists for lining puncture. An underlinment is advised. Operators representative was informed in person and responded that the plans detailed underlinment and a 30 mil liner

Closed Loop Mud Required? N **Liner Required?** Y **Liner Thickness** 16 **Pit Underlayment Required?** Y

Other Observations / Comments

Chris Jensen

1/11/2012

Evaluator

Date / Time

Application for Permit to Drill Statement of Basis

3/20/2012

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
5069	43047522810000	SITLA	GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		Surface Owner-APD		
Well Name	Morgan State 921-36F1BS		Unit		
Field	NATURAL BUTTES		Type of Work	DRILL	
Location	SENW 36 9S 21E S 1512 FNL 1807 FWL GPS Coord (UTM) 627797E 4428342N				

Geologic Statement of Basis

Kerr McGee proposes to set 2,610' 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 2,000'. 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

2/1/2012
Date / Time

Surface Statement of Basis

Location is in the Morgan State unit which is within the Natural Buttes unit in southern Uintah county. There are minor drainages close to the proposed activities which are eventual tributaries to the white river. Because the soil is erodible, stockpiles to be used to act as a buffer for any hydrologic features. Due to the rock within the soils and likely hood of disturbance to sandstone bedrock, the pit is to be underlined to prevent puncture. The operators representative was present and an integral part of this decision.

Chris Jensen
Onsite Evaluator

1/11/2012
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 12/19/2011

API NO. ASSIGNED: 43047522810000

WELL NAME: Morgan State 921-36F1BS

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

PHONE NUMBER: 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: SENW 36 090S 210E

Permit Tech Review:

SURFACE: 1512 FNL 1807 FWL

Engineering Review:

BOTTOM: 1408 FNL 2144 FWL

Geology Review:

COUNTY: UINTAH

LATITUDE: 39.99560

LONGITUDE: -109.50297

UTM SURF EASTINGS: 627797.00

NORTHINGS: 4428342.00

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 921-36F1BS
API Well Number: 43047522810000
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 921-36F1BS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1512 FNL 1807 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 36 Township: 09.0S Range: 21.0E Meridian: S	9. API NUMBER: 43047522810000
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	9. FIELD and POOL or WILDCAT: MORGAN STATE BUTTES
COUNTY: UINTAH	
STATE: UTAH	

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: 5/26/2012	<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 TRIPPLE A BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'.
 RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD
 WELL ON 05/26/2012 AT 0730 HRS.

**Accepted by the
 Utah Division of
 Oil, Gas and Mining
 FOR RECORD ONLY
 May 29, 2012**

NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 5/29/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22265	
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
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 921-36F1BS	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		9. API NUMBER: 43047522810000	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1512 FNL 1807 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 36 Township: 09.0S Range: 21.0E Meridian: S		9. FIELD and POOL or WILDCAT: MATERIAL BUTTES	
		COUNTY: UINTAH	
		STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 5/30/2012	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: ACTS/ Pit Refurb
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
<p>Kerr-McGee Oil & Gas Onshore, LP is requesting to refurb the existing pit on this multi-well pad for completion operations. The refurb pit will be relined per the requirements in the COA of the APD. Upon completion of the wells on this pad, Kerr-McGee is also requesting to utilize this pit as an ACTS staging pit to be utilized for other completion operations in the area. The trucks will unload water into these tanks before the water is placed into the refurbished pit. The purpose of the frac tanks is to collect any hydro-carbons that may have been associated with the other completion operations before releasing into the pit. We plan to keep this pit open for 1 year. During this time the surrounding well location completion fluids will be recycled in this pit and utilized for other frac jobs in the surrounding sections. Thank you.</p>			
			<p>Approved by the Utah Division of Oil, Gas and Mining</p> <p>Date: <u>May 29, 2012</u></p> <p>By: <u></u></p>
NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst	
SIGNATURE N/A		DATE 5/22/2012	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43047522810000

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

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
 Submitted By J. Scharnowske Phone Number 720.929.6304
 Well Name/Number MORGAN STATE 921-36F1BS
 Qtr/Qtr SEnw Section 36 Township 9S Range 21E
 Lease Serial Number ML 22265
 API Number 4304752281

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

Date/Time 05/25/2012 09:00 HRS AM PM

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

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

RECEIVED
MAY 24 2012
 DIV. OF OIL, GAS & MINING

Date/Time 06/07/2012 08:00 HRS AM PM

BOPE

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

Date/Time _____ AM PM

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT KENNY GATHINGS AT
435.828.0986 OR LOVELL YOUNG AT 435.781.7051

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

FORM 6

ENTITY ACTION FORM

Operator: KERR MCGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
 Address: 1368 SOUTH 1200 EAST
city VERNAL
state UT zip 84078 Phone Number: (435) 781-7024

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752281	MORGAN STATE 921-36F1BS		SEnw	36	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	18550	5/26/2012		5/30/2012		
Comments: MIRU TRIPPLE A BUCKET RIG. <i>mVRD</i> SPUD WELL ON 05/26/2012 AT 0730 HRS. <i>BHL: senw</i>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752283	MORGAN STATE 921-36G1BS		SEnw	36	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	18551	5/26/2012		5/30/2012		
Comments: MIRU TRIPPLE A BUCKET RIG. <i>mVRD</i> SPUD WELL ON 05/26/2012 AT 1000 HRS. <i>BHL: swhe</i>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752284	MORGAN STATE 921-36G1CS		SEnw	36	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	18552	5/26/2012		5/30/2012		
Comments: MIRU TRIPPLE A BUCKET RIG. <i>mVRD</i> SPUD WELL ON 05/26/2012 AT 1230 HRS. <i>BHL: swhe</i>							

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)

SHEILA WOPSOCK

Name (Please Print)

Signature

REGULATORY ANALYST

Title

5/29/2012

Date

RECEIVED

MAY 30 2012

Div. of Oil, Gas & Mining

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.	
1. TYPE OF WELL Gas Well	5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22265
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1512 FNL 1807 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 36 Township: 09.0S Range: 21.0E Meridian: S	8. WELL NAME and NUMBER: Morgan State 921-36F1BS
PHONE NUMBER: 720 929-6511	9. API NUMBER: 43047522810000
9. FIELD and POOL or WILDCAT: MORGAN STATE LATERAL BUTTES	COUNTY: UINTAH
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input 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: 6/11/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

MIRU AIR RIG ON 6/6/2012. DRILLED SURFACE HOLE TO 2675'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.

**Accepted by the
 Utah Division of
 Oil, Gas and Mining
 FOR RECORD ONLY
 June 12, 2012**

NAME (PLEASE PRINT) Cara Mahler	PHONE NUMBER 720 929-6029	TITLE Regulatory Analyst I
SIGNATURE N/A	DATE 6/11/2012	

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 921-36F1BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047522810000
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: 1512 FNL 1807 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW 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: 8/2/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

No activity for the month of July 2012. Surface casing set at 2,675'.

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

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22265
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: MORGAN STATE 921-36F1BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047522810000
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: 1512 FNL 1807 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW 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: 8/31/2012	<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.
 FINISHED DRILLING TO 9511' ON 8/28/2012. RAN 4-1/2" 11.6# I-80 PRODUCTION CASING. CEMENTED PRODUCTION CASING. RELEASED H&P 318 RIG ON 8/31/2012. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES.

NAME (PLEASE PRINT) Cara Mahler	PHONE NUMBER 720 929-6029	TITLE Regulatory Analyst I
SIGNATURE N/A	DATE 9/5/2012	

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 921-36F1BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047522810000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6511 9. FIELD and POOL or WILDCAT: MATERIAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1512 FNL 1807 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 36 Township: 09.0S Range: 21.0E Meridian: S	COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 9/1/2012	<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 10673' ON 8/29/2012. RAN 4-1/2" 11.6# I-80 PRODUCTION CASING. CEMENTED PRODUCTION CASING. RELEASED H&P 311 RIG ON 9/1/2012. DETAILS OF CEMENT JOB 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
 September 07, 2012**

NAME (PLEASE PRINT) Cara Mahler	PHONE NUMBER 720 929-6029	TITLE Regulatory Analyst I
SIGNATURE N/A	DATE 9/5/2012	

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 921-36F1BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047522810000
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: 1512 FNL 1807 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW 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 9,511.

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

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
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 921-36F1BS
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	9. API NUMBER: 43047522810000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1512 FNL 1807 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 36 Township: 09.0S Range: 21.0E Meridian: S	9. FIELD and POOL or WILDCAT: MORGAN STATE BUTTES
	COUNTY: UINTAH
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 12/3/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
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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 9,511.

**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 Regularatory Analyst
SIGNATURE N/A	DATE 12/3/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9																														
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<p style="margin: 0;">Accepted by the Utah Division of Oil, Gas and Mining</p> <p style="margin: 0;">FOR RECORD ONLY</p> <p style="margin: 0;">January 04, 2013</p>																																
NAME (PLEASE PRINT) Laura Abrams	PHONE NUMBER 720 929-6356	TITLE Regulatory Analyst II																														
SIGNATURE N/A	DATE 1/3/2013																															

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
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		STATE: UTAH	
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
<p>The subject well was placed on production on 01/23/2013. The Chronological Well History will be submitted with the well completion report.</p>			
<p>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 25, 2013</p>			
NAME (PLEASE PRINT) Lindsey Frazier		PHONE NUMBER 720 929-6857	TITLE Regulatory Analyst II
SIGNATURE N/A		DATE 1/25/2013	

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

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 921-36F1BS

9. API NUMBER:
4304752281

10. FIELD AND POOL, OR WILDCAT
NATURAL BUTTES

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
SENW 36 T9S 21E S

12. COUNTY
UINTAH

13. STATE
UTAH

1a. TYPE OF WELL: OIL WELL GAS WELL DRY OTHER _____

b. TYPE OF WORK: NEW WELL HORIZ. LATS. DEEP-EN RE-ENTRY DIFF. RESVR. OTHER _____

2. NAME OF OPERATOR:
KERR MCGEE OIL & GAS ONSHORE, L.P.

3. ADDRESS OF OPERATOR: P.O. BOX 173779 CITY DENVER STATE CO ZIP 80217 PHONE NUMBER: (720) 929-6000

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: **SENW 1512 FNL 1807 FWL S36,T9S,R21E**
AT TOP PRODUCING INTERVAL REPORTED BELOW: **SENW 1395 FNL 2136 FWL S36,T9S,R21E**
AT TOTAL DEPTH: **SENW 1412 FNL 2147 FWL S36,T9S,R21E**

14. DATE SPUNDED: **5/26/2012**

15. DATE T.D. REACHED: **8/28/2012**

16. DATE COMPLETED: **1/23/2013** ABANDONED READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL): **5018 RKB**

18. TOTAL DEPTH: MD **9,511** TVD **9,486**

19. PLUG BACK T.D.: MD **9,424** TVD **9,399**

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)
BHP-HDIL/ZDL/CNGR-CBL/GR/CCL/TEMP-GR/CBL

23. WAS WELL CORED? NO YES (Submit analysis)
WAS DST RUN? NO YES (Submit report)
DIRECTIONAL SURVEY? NO YES (Submit copy)

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

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#	0	40		28			
11"	8 5/8" IJ-55	28#	0	2,657		600		0	
7 7/8"	4 1/2" I-80	11.6#	0	9,471		2,529		50	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	8,781							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) WASATCH	6,121	7,290			6,121 7,290	0.36	93	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B) MESAVERDE	7,355	9,318			7,355 9,318	0.36	171	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
6121-9318	PUMP 14,683 BBLS SLICK H2O & 333,161 LBS 30/50 OTTAWA SAND 12 STAGES

RECEIVED
FEB 27 2013
DIV. OF OIL, GAS & MINING

29. ENCLOSED ATTACHMENTS:

ELECTRICAL/MECHANICAL LOGS GEOLOGIC REPORT DST REPORT DIRECTIONAL SURVEY

SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION CORE ANALYSIS OTHER: _____

30. WELL STATUS:
PROD

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 1/23/2013		TEST DATE: 1/30/2013		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 2,554	WATER - BBL: 0	PROD. METHOD: FLOWING
CHOKE SIZE: 20/64	TBG. PRESS. 1,324	CSG. PRESS. 1,790	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 2,554	WATER - BBL: 0	INTERVAL STATUS: PROD

INTERVAL B (As shown in item #26)

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

INTERVAL C (As shown in item #26)

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

INTERVAL D (As shown in item #26)

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

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

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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

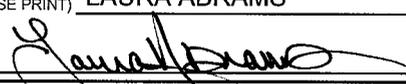
34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				GREEN RIVER	1,426
				BIRD'S NEST	1,658
				MAHOGANY	2,079
				WASATCH	4,658
				MESAVERDE	7,336

35. ADDITIONAL REMARKS (Include plugging procedure)

The first 203' of the surface hole was drilled with a 12 1/4" bit. The remainder of surface hole was drilled with an 11" bit. A top down cement job using 760 sx cement was performed on 12/10/2012 to get cement to surface. DQX csg was run from surface to 4951'; LTC csg was run from 4951' to 9471'. 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) LAURA ABRAMS TITLE REGULATORY ANALYST
 SIGNATURE  DATE 2/22/2013

This report must be submitted within 30 days of

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

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

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

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

**US ROCKIES REGION
Operation Summary Report**

Well: MORGAN STATE 921-36F1BS RED

Spud Date: 6/7/2012

Project: UTAH-UINTAH

Site: MORGAN STATE 921-36F2 PAD

Rig Name No: H&P 318/318, CAPSTAR 310/310

Event: DRILLING

Start Date: 5/23/2012

End Date: 8/31/2012

Active Datum: RKB @5,018.00usft (above Mean Sea Level)

UWI: SE/NW/0/9/S/21/E/36/0/0/26/PM/N/1512/W/0/1807/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
6/6/2012	0:00 - 6:00	6.00	RDMO	21	E	P		RIG DOWN. WAIT ON TRUCKING
	6:00 - 11:00	5.00	MIRU	01	B	P		MOVE RIG TO MORGAN STATE 921 36F1BS, WELL 1 OF 4. START RIG UP
	11:00 - 0:00	13.00	MIRU	01	B	P		CHANG OUT RIG SWMVEL. CONTINUE RIG UP OF CLOSED LOOP SYSTEM
6/7/2012	0:00 - 4:00	4.00	MIRU	01	G	P		RIG UP OF CLOSED LOOP SYSTEM
	4:00 - 8:00	4.00	MIRU	21	E	P		WAITING ON PROPER CAM LOCKS, HOSE FITTINGS AND HOSES FROM NOV. ALSO WAITING ON WATER. WATER SERVICE TRUCK BROKE DOWN LAST NIGHT, WAS NOT ABLE TO COMPLETE RUN PICK UP 12.25" BHA, AIR OUR PUMPS
	8:00 - 9:30	1.50	PRPSPD	01	B	P		
	9:30 - 13:00	3.50	DRLSUR	02	D	P		DRILL 12.25" SURFACE HOLE F/ 49'- 203' ROP= 161' @ 81 FPH WOB= 14/22K RPM= 55/105 SPP=800/500 GPM= 595 TRQ= 2600/1900 PU/SO/ROT = 49/46/47 NO LOSSES HOLE IN GOOD SHAPE
	13:00 - 13:30	0.50	DRLSUR	06	A	P		TRIP OUT OF HOLE, LAY DOWN 12.25" BIT
	13:30 - 15:30	2.00	DRLSUR	08	A	S		REPLACE FLOOR LIFY CYLINDER, REPAIR AND WORK ON FLOOR
	15:30 - 16:30	1.00	DRLSUR	06	A	P		PICK UP 11" BIT, DIRECTIONAL TOOLS, SCRIBE & TRIP IN HOLE
	16:30 - 21:30	5.00	DRLSUR	02	D	P		DRILL 11.00" FROM/ 203'-561' ROP= 161' @ 81 FPH WOB= 14/22K RPM= 55/105 SPP=800/500 GPM= 595 TRQ= 2600/1900 PU/SO/ROT = 49/46/47 NO LOSSES HOLE IN GOOD SHAPE
	21:30 - 22:30	1.00	DRLSUR	21	E	Z		WAITING ON NOV TO CLEAN PIT, HAVING PROBLEMS WITH THEIR SHAKERS AND PIT SYSTEM
22:30 - 0:00	1.50	DRLSUR	02	D	P		DRILL 11.00" FROM/ 561'-750' ROP= @ 81 FPH WOB= 14/22K RPM= 55/105 SPP=990/740 GPM= 595 TRQ= 2800/1900 PU/SO/ROT = 59/52/56 NO LOSSES HOLE IN GOOD SHAPE	

**US ROCKIES REGION
Operation Summary Report**

Well: MORGAN STATE 921-36F1BS RED

Spud Date: 6/7/2012

Project: UTAH-UIINTAH

Site: MORGAN STATE 921-36F2 PAD

Rig Name No: H&P 318/318, CAPSTAR 310/310

Event: DRILLING

Start Date: 5/23/2012

End Date: 8/31/2012

Active Datum: RKB @5,018.00usft (above Mean Sea Level)

UWI: SE/NW09/S21/E36/O0/26/PM/N1512/W0/1807/O0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
6/8/2012	0:00 - 11:30	11.50	DRLSUR	02	D	P		DRILL 11.00" FROM/ 750'- 1506" ROP= @ 81 FPH WOB= 14/22K RPM= 55/105 SPP=990/740 GPM= 595 TRQ= 2800/1900 PU/SO/ROT = 59/52/56 NO LOSSES HOLE IN GOOD SHAPE
	11:30 - 13:00	1.50	DRLSUR	22	O	Z		STOP OPERATIONS. PULL OFF BOTTOM. EVAC CREW TO MUSTER POINT. JD SERVICES RIG UP, SAFETY MEET. RECOVER DOWN EQUIPMENT. RESUME OPERATIONS.
	13:00 - 15:30	2.50	DRLSUR	02	D	P		DRILL 11.00" FROM/ 1506"-1602' ROP= @ 81 FPH WOB= 14/22K RPM= 55/105 SPP=1050/840 GPM= 595 TRQ= 2800/1900 PU/SO/ROT = 75/50/65 NO LOSSES HOLE IN GOOD SHAPE
	15:30 - 18:00	2.50	DRLSUR	22	L	Z		PUMP FAILURE. NOV MAIN PUMP TO CATCH PIT DOWN. WILL NEED REPLACING. PROBLEMS WITH NOV EQUIPMENT. PULL OFF BOTTOM AND WAIT FOR REPAIRS
	18:00 - 22:00	4.00	DRLSUR	06	K	S		TRIP OUT OF HOLE TO 1390', SLOW PUMPS, ROTATE. BYPASS NOV PUMP, INSTALL YELLOW DOG PUMP IN ITS PLACE
	22:00 - 0:00	2.00	DRLSUR	06	F	S		TRIP IN HOLE TO RESUME DRILLING
6/9/2012	0:00 - 2:00	2.00	DRLSUR	02	D	P		DRILL 11.00" FROM/ 1602'-1822' ROP= @ 81 FPH WOB= 14/22K RPM= 55/105 SPP=1050/840 GPM= 595 TRQ= 2800/1900 PU/SO/ROT = 75/50/65 NO LOSSES HOLE IN GOOD SHAPE
	2:00 - 3:00	1.00	DRLSUR	22	L	Z		SHAKERS DOWN, REPAIRING
	3:00 - 5:00	2.00	DRLSUR	02	D	P		DRILL 11.00" FROM/ 1822'-1915' ROP= @ 81 FPH WOB= 14/22K RPM= 55/105 SPP=1050/840 GPM= 595 TRQ= 3000/1900 PU/SO/ROT = 95/80/85 NO LOSSES HOLE IN GOOD SHAPE

US ROCKIES REGION
Operation Summary Report

Well: MORGAN STATE 921-36F1BS RED		Spud Date: 6/7/2012	
Project: UTAH-UINTAH		Site: MORGAN STATE 921-36F2 PAD	Rig Name No: H&P 318/318, CAPSTAR 310/310
Event: DRILLING		Start Date: 5/23/2012	End Date: 8/31/2012
Active Datum: RKB @5,018.00usft (above Mean Sea Level)		UWI: SE/NW09/S/21/E/36/0/0/26/PM/N/1512/W/0/1807/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	5:00 - 7:30	2.50	DRLSUR	22	L	Z		STOP OPERATIONS, NOV PUMP NOT HANDLING RETURNS, BY PASS RETURNS TO EMPTY FRACS, RESERVE PIT
	7:30 - 15:30	8.00	DRLSUR	02	D	P		DRILL 11.00" FROM/ 1915'-2379' ROP= @ 91 FPH WOB= 14/22K RPM= 55/105 SPP=1050/840 GPM= 595 TRQ= 3200/1900 PU/SO/ROT = 115/95/103 NO LOSSES HOLE IN GOOD SHAPE
	15:30 - 18:30	3.00	DRLSUR	22	L	Z		NOV GENERATOR DOWN. TRIP OUT, LAY DOWN 5 JOINTS. WAITING ON REPLACEMENT GENERATOR
	18:30 - 19:00	0.50	DRLSUR	06	K	P		TRIP IN HOLE
	19:00 - 23:00	4.00	DRLSUR	02	D	P		DRILL 11.00" FROM/ 2379'- 2675' ROP= @ 101 FPH WOB= 14/22K RPM= 55/105 SPP=1050/740 GPM= 595 TRQ= 3200/1900 PU/SO/ROT = 115/95/103 NO LOSSES HOLE IN GOOD SHAPE
	23:00 - 0:00	1.00	DRLSUR	05	C	P		CIRCULATE PRIOR TO TRIP
6/10/2012	0:00 - 5:00	5.00	DRLSUR	06	D	P		PULLOUT OF HOLE, FLOW CHECK EVERY 200'. LAY DOWN BIT AND DIRECTIONAL TOOLS
	5:00 - 9:00	4.00	DRLSUR	12	C	P		PJSM /// RUN 60 JT'S, 8-5/8", 28#, J-55, LT&C CSG /// SHOE SET @ 2633' /// BAFFLE @ 2587'
	9:00 - 12:00	3.00	DRLSUR	12	C	P		PJSM WITH PRO PETRO CMT CREW /// PUMP 40 BBL'S WATER AHEAD FOLLOWED BY 20 BBL GEL WATER FLUSH /// LEAD = 250sx CLASS G CMT @ 11.0 WT & 3.82 YIELD /// TAIL = 200sx CLASS G CMT @ 15.8 WT & 1.15 YIELD /// DROP PLUG & DISPLACE W/ 164 BBL'S WATER /// PLUG DN @ 11:18 06/10/2012 /// BUMP PLUG W/ 600 PSI /// FINAL LIFT = 600 PSI /// CHECK FLOATS - NO CMT TO SURFACE, RUN 200' OF 1" PIPE DOWN BACKSIDE & TOP OUT W/ 200 sx CLASS G CMT & 15.8 WT & 1.15 YIELD /// NO CMT TO SURFACE
8/22/2012	15:30 - 18:00	2.50	RDMO	01	E	P		RIG RELEASED AT 1200 RIG DOWN JONES HAD 3 TRUCKS, 2 FORKLIFTS, 3 SWAMPERS SET OUT FRONT END MOVED DRILL PIPE 25% RIGED DOWN STALLION HAD 3 TRUCKS 3 SERVICE TRUCK 3 HANDS MOVED MAN CAMPS SET BACK UP
	18:00 - 0:00	6.00	RDMO	21	C	P		WAIT ON DAY LITE
8/23/2012	0:00 - 6:00	6.00	RDMO	21	C	P		WAIT ON DAY LITE

US ROCKIES REGION

Operation Summary Report

Well: MORGAN STATE 921-36F1BS RED Spud Date: 6/7/2012

Project: UTAH-UINTAH Site: MORGAN STATE 921-36F2 PAD Rig Name No: H&P 318/318, CAPSTAR 310/310

Event: DRILLING Start Date: 5/23/2012 End Date: 8/31/2012

Active Datum: RKB @5,018.00usft (above Mean Sea Level) UWI: SE/NW09/S/21/E/36/0/0/26/PM/N/1512/W/0/1807/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 20:00	14.00	RDMO	01	E	P		RIG DOWN FOR TRUCKS JONES HAD 7 TRUCKS,2 FORKLIFTS, 3 SWAMPER, 2 TRUCK PUSHER,1 FLAGER FOR HYWAY, 2 CRAINS, 4 OILER H&P HAD 17 HANDS SAFTY HAND, PUSHER, 100 % RIGED DOWN 100 % MOVED 96 % RIGED UP RELEASED TRUCK S @ 19:00 8/23/2012 1CRAIN @ 19:00 8/23/2012 SEC CRAIN @ 19:30 8 23/2012 (RIG MOVE WAS 1/2 MILE)
	20:00 - 0:00	4.00	RDMO	21	C	P		WAIT ON DAY LITE
8/24/2012	0:00 - 6:00	6.00	MIRU	21	C	P		WAIT ON DAY LITE
	6:00 - 19:00	13.00	MIRU	01	B	P		RIG UP BY HAND ,RASIED DERRICK, PIN MAST RASING CYENDERS, DRESS DERRICK RAN CABLES PINED TOP DRIVE SKID BOTTOM & TOP SUB CENTER OVER WELL
	19:00 - 22:30	3.50	PRPSPD	14	A	P		NIPPLE UP BOPS
	22:30 - 0:00	1.50	PRPSPD					NIPPLE UP SWACO ORBIT VAVLE, SWACO CHOKE LINES TIGHTEN BOLTS TO QUICK FLANGE
8/25/2012	0:00 - 7:30	7.50	DRLPRO	15	A	P		TEST BOP BLINDS , PIPE, HCR WING VAVLES , CHOKE MANFOLD, IBOP FLOOR VAVLES , 5000 PSI , LOW 250 PSI ANN 2500 PSI LOW 250 CASING 1500 PSI
	7:30 - 8:00	0.50	DRLPRO	14	A	P		INSTALL WEAR BUSHING
	8:00 - 10:30	2.50	DRLPRO	14	A			INSTALL SMITH ROTAING HEAD HAD TO MAKE 4 SET ORING FOR HEAD WRONG SIZE AGAIN ORBIT VAVLE LEAKING NO GASKIT FOT IT CALLED TALKED TO ANDRIES BISSCHOFF WITH SWACO ABOUT GETTING PARTS RIGHT O-RINGS HE SAID SMITH WAS STILL RUNNING THE HEAD SO I CALLED CHASE WITH SMITH ROTATING HEADS HE SAID HE'D GET O-RINGS API RING GASKETS FOR ORBIT VALVE
	10:30 - 11:00	0.50	DRLPRO	15	A	P		TEST SMITH, SWACO EQUIP.
	11:00 - 13:00	2.00	DRLPRO	06	A	P		P/U BHA MWD TOOLS SCRIBE IN HOLE
	13:00 - 14:30	1.50	DRLPRO	06	A	P		TIH WITH BHA
	14:30 - 15:00	0.50	DRLPRO	06	A	P		INSTALL ROTATING HEAD RUBBER
	15:00 - 16:30	1.50	DRLPRO	06	A	P		TIH WITH MWD TOOLS TAGED TOP CMT @ 2574
	16:30 - 17:00	0.50	DRLPRO	07	A	P		RIG SER
	17:00 - 18:30	1.50	DRLPRO	02	F	P		DRILL CMT FLOAT EQUIP. SHOE TRACK
	18:30 - 20:00	1.50	DRLPRO	02	D	P		DRILL SLID F/ 2700 TO 2917 217' ROP 144.66 WT 19 RPM 50 TO 55 PUMP ON / OFF 1800 /1400 PUMP SPM 120 GPM 540 TORQUE ON / OFF 7 / 3 MUD WT 8.6 VIS 26 SLID 103 1 HRS, 40 MINS.
	20:00 - 21:00	1.00	DRLPRO	22	L	Z		MWD TOOLS QUIT WORKING HAD TO RERUN WIRES WORKING GOOD NOW

**US ROCKIES REGION
Operation Summary Report**

Well: MORGAN STATE 921-36F1BS RED		Spud Date: 6/7/2012	
Project: UTAH-UINTAH		Site: MORGAN STATE 921-36F2 PAD	Rig Name No: H&P 318/318, CAPSTAR 310/310
Event: DRILLING		Start Date: 5/23/2012	End Date: 8/31/2012
Active Datum: RKB @5,018.00usft (above Mean Sea Level)		UWI: SE/NW09/S/21/E/36/0/0/26/PM/N/1512/W/0/1807/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	21:00 - 0:00	3.00	DRLPRO	02	D	P		DRILL SLID F/ 2917 TO 3389 472' ROP 157.3 WT 19 RPM 50 TO 55 PUMP ON / OFF 1800 /1400 PUMP SPM 120 GPM 540 TORQUE ON / OFF 7 / 3 MUD WT 8.6 VIS 26 SLID 103 1 HRS, 40 MINS.
8/26/2012	0:00 - 16:30	16.50	DRLPRO	02	D	P		DRILL,SLID F/ 3389 TO 5846 FT 2457' ROP148.9 WOB 20 RPM T D - 60 MM - RPM - 152 PUMP PSI ON / OFF 1870 /1400 PUMP SPM 60 / 60 GPM 540 TRQ ON / OFF 7 / 3 NOV - DEWATERING SWACO - OFF LINE SLID 88' HRS 1 MINS 30 ROP 58.6 RIG SER.
	16:30 - 17:00	0.50	DRLPRO	07	A			
	17:00 - 0:00	7.00	DRLPRO	02	D			DRILL,SLID F/ 5846 TO 6664 FT 818 ' ROP116.85 WOB 23-25 RPM T D - 44-50 MM - RPM - 138 PUMP PSI ON / OFF 1940 / 1530 PUMP SPM 55 / 55 GPM 495 TRQ ON / OFF 7 / 3 NOV - DEWATERING SWACO - OFF LINE SLID X HRS X MINS X ROP X FLUID LOST @ 5619 120 BBLs HELD BOP DRILL 3 MIN 10 SEC ALL MEMBER AT STATIONS
8/27/2012	0:00 - 17:00	17.00	DRLPRO	02	D	P		DRILL,SLID F/ 6664 TO 8111 FT 1447 ' ROP 85.11 WOB 23-25 RPM T D - 44-50 MM - RPM - 138 PUMP PSI ON / OFF 1940 / 1530 PUMP SPM 55 / 55 GPM 495 TRQ ON / OFF 7 / 3 NOV - DEWATERING SWACO - OFF LINE SLID 39' HRS 1 MINS 50 ROP P/U 213 S/O 151 R/T 180 RIG SER.
	17:00 - 17:30	0.50	DRLPRO	07	D	P		
	17:30 - 0:00	6.50	DRLPRO	02	A	P		RIG SERDRILL,SLID F/ 8111 TO 8620 FT 509 ' ROP 72.7 WOB 23-25 RPM T D - 44-50 MM - RPM - 138 PUMP PSI ON / OFF 1940 / 1530 PUMP SPM 109 GPM 495 TRQ ON / OFF 12 / 9 NOV - DEWATERING SWACO - OFF LINE SLID ' HRS X MINS X ROP

US ROCKIES REGION
Operation Summary Report

Well: MORGAN STATE 921-36F1BS RED		Spud Date: 6/7/2012	
Project: UTAH-UINTAH		Site: MORGAN STATE 921-36F2 PAD	Rig Name No: H&P 318/318, CAPSTAR 310/310
Event: DRILLING		Start Date: 5/23/2012	End Date: 8/31/2012
Active Datum: RKB @5,018.00usft (above Mean Sea Level)		UWI: SE/NW0/9/S/21/E/36/0/0/26/PM/N/1512/W/0/1807/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
8/28/2012	0:00 - 11:00	11.00	DRLPRO	02	D	P		DRILL,SLID F/ 8620 TO 9511 FT 891 ' ROP 81.0 TD WELL WOB 23-25 RPM T D - 44-50 MM - RPM - 138 MUD WT 8.7 VIS 26 PUMP PSI ON / OFF 1940 / 1530 PUMP SPM 109 GPM 495 TRQ ON / OFF 12 / 9 NOV - DEWATERING SWACO - OFF LINE SLID ' HRS X MINS X ROP FLARE 25-30'
	11:00 - 19:30	8.50	DRLPRO	05	G	P		CIRC DISPLACE DIRTY WATER WITH 12.1 MUD MUD TRANSFERD OUT UPRIGHT WAS ONLY 10.8 NOT 12.1 BROUGHT MUD WT UP TO 12.1 VIS 48
8/29/2012	19:30 - 0:00	4.50	DRLPRO	06	E	P		WIPER TRIP FOR LOGS
	0:00 - 0:30	0.50	DRLPRV	06	E	P		TRIP OUT HOLE
	0:30 - 1:30	1.00	DRLPRV	06	E	P		LAY DOWN MWD TOOLS, MM, BIT
	1:30 - 7:00	5.50	DRLPRV	06	A	P		TRIP IN HOLE FOR WIPER TRIP FOR LOGS
	7:00 - 11:30	4.50	DRLPRV	05	C	P		CIRCULATE & CONDITION F/ LOGS, BUILD VOLUME , RAISE MUD WT TO 12.2, VIS 47
	11:30 - 16:30	5.00	DRLPRV	06	A	P		TRIP OUT OF HOLE F/ LOGS , NO PROBLEMS
8/30/2012	16:30 - 22:00	5.50	EVALPR	11	C	X		SAFETY MEETING W/ BAKER ATLAS, RIG UP LOGGERS, RUN TRIPLE COMBO LOGS ,BRIDGED OUT @ 7470', LOG OUT, RIG DOWN LOGGERS, (LOGGERS LEFT HOLE FINDER & SPRING CENTRALIZER IN THE HOLE)
	22:00 - 0:00	2.00	EVALPR	06	E	X		*** 2ND WIPER TRIP *** TRIP IN HOLE W/ R/R TRICONE BIT & BIT SUB @ 4250'
	0:00 - 3:00	3.00	EVALPR	06	E	X		*** 2ND WIPER TRIP/ LOG FAILURE*** TRIP IN HOLE F/ 4250' TO 9511'
	3:00 - 6:30	3.50	EVALPR	05	C	X		*** LOG FAILURE*** CIRCULATE & CONDITION F/ LOGS
	6:30 - 11:00	4.50	EVALPR	06	E	X		***TRIP OUT OF HOLE F/ LOGS
	11:00 - 15:00	4.00	EVALPR	11	G	X		*** 2ND LOG ATTEMPT *** SAFETY MEETING W/ BAKER ATLAS, RIG UP LOGGERS, RUN TRIPLE COMBO LOGS TO
	15:00 - 16:30	1.50	CSGPRO	14	B	P		PULL BEARING PACK, INSTALL CASING SPOOL, PULL WEAR BUSHING
	16:30 - 17:00	0.50	CSGPRO	12	A	P		SAFETY MEETING W/ KIMZEY & RIG UP CASERS
	17:00 - 0:00	7.00	CSGPRO	12	C	P		RUN 215 JTS 4.5, 11.6, I80 PRODUCTION CASING (103 JTS LT&C 112 JTS DQX) SHOE 9471', TOP OF FLOAT 9424', TOP OF MARKER 7243' TOP OF X/O 4930'
	8/31/2012	0:00 - 0:30	0.50	CSGPRO	12	C	P	
8/31/2012	0:30 - 2:30	2.00	CSGPRO	05	D	P		CIRCULATE 2 BOTTOMS UP, NO LOSSES
	2:30 - 3:00	0.50	CSGPRO	12	B	P		SAFETY MEETING W/ BJ SERVICES , RIG UP CEMENTERS

US ROCKIES REGION
Operation Summary Report

Well: MORGAN STATE 921-36F1BS RED Spud Date: 6/7/2012

Project: UTAH-UINTAH Site: MORGAN STATE 921-36F2 PAD Rig Name No: H&P 318/318, CAPSTAR 310/310

Event: DRILLING Start Date: 5/23/2012 End Date: 8/31/2012

Active Datum: RKB @5,018.00usft (above Mean Sea Level) UWI: SE/NW/0/9/S/21/E/36/0/0/26/PM/N/1512/W/0/1807/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	3:00 - 7:00	4.00	CSGPRO	12	E	P		CEMENT PROD CASING, PRESSURE TEST TO 5400 PSI, DROP BOTTOM PLUG, PUMP 25 BBLS SPACER, 714 SX, PREMIUM LITE II CEMENT + 5 LBS/SACK KOL-SEAL, 50 LB BAG + 0.3% BWOC FL-52 + 0.4% BWOC SODIUM METASILICATE + 6% BWOC BENTONITE II + 0.05LBS/SACK STATIC FREE + 0.6% BWOC R-3 +0.25 LBS/SACK CELLO FLAKE + 84.9% FRESH WATER, 13#, 1.77 YLD, LEAD, 1815 SACKS (50:50) POZ (FLY ASH): CLASS G CEMENT + 0.05 LBS/SACK STATIC FREE + 10% BWOW SODIUM CHLORIDE + 0.2% BWOC R-3 + 0.5% BWOC EC-1 + 0.002 GPS FP-6L + 2% BWOC BENTONITE II + 58.9% FRESH WATER 14.3#, 1.32 YLD TAIL, SHUT DOWN WASH UP, DROP TOP PLUG, DISPLACE W/ 146.5 BBLS CLAY CARE + 1 GAL MAGNACIDE @ 8.34 PPG, FINAL LIFT 2960 PSI, BUMP PLUG @ 3560 PSI, ONLY HAD RETURNS FOR A BRIEF PERIOD ABOUT HALF WAY THROUGH TAIL, NO CEMENT BACK TO PIT, TOP OF TAIL EST 3900'
	7:00 - 8:00	1.00	CSGPRO	12	B	P		RIG DOWN CEMENTERS, FLUSH OUT STACK, ORBIT VALVE, SWACO EQUIPMENT
	8:00 - 9:00	1.00	CSGPRO	14	B	P		SET PACK OFF & LAY DOWN LANDING JOINT
	9:00 - 10:00	1.00	CSGPRO	14	A	P		NIPPLE DOWN BOP & EQUIPMENT, RELEASE RIG @ 10:00 8/31/2012 TO MORGAN STATE 921-36G1BS, PREP RIG F/ SKID

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	MORGAN STATE 921-36F1BS RED	Wellbore No.	OH
Well Name	MORGAN STATE 921-36F1BS	Wellbore Name	MORGAN STATE 921-36F1BS
Report No.	1	Report Date	12/5/2012
Project	UTAH-UINTAH	Site	MORGAN STATE 921-36F2 PAD
Rig Name/No.		Event	COMPLETION
Start Date	12/5/2012	End Date	1/23/2013
Spud Date	6/7/2012	Active Datum	RKB @5,018.00usft (above Mean Sea Level)
UWI	SE/NW/0/9/S/21/E/36/0/0/26/PM/N/1512/W/0/1807/0/0		

1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly		Conveyed Method			

1.4 Initial Conditions

Fluid Type		Fluid Density	
Surface Press		Estimate Res Press	
TVD Fluid Top		Fluid Head	
Hydrostatic Press		Press Difference	
Balance Cond	NEUTRAL		

1.5 Summary

Gross Interval	6,121.0 (usft)-9,318.0 (usft)	Start Date/Time	1/4/2013 12:00AM
No. of Intervals	72	End Date/Time	1/4/2013 12:00AM
Total Shots	264	Net Perforation Interval	86.00 (usft)
Avg Shot Density	3.07 (shot/ft)	Final Surface Pressure	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
1/4/2013 12:00AM	WASATCH/			6,121.0	6,125.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

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	Misrurt
1/4/2013 12:00AM	WASATCH/			6,206.0	6,208.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			6,306.0	6,307.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			6,401.0	6,403.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			6,470.0	6,471.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			6,485.0	6,486.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			6,502.0	6,504.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			6,628.0	6,630.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			6,694.0	6,695.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			6,721.0	6,723.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			6,785.0	6,787.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			6,885.0	6,886.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			6,967.0	6,968.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			6,987.0	6,988.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			6,994.0	6,995.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			7,015.0	7,016.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			7,046.0	7,047.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			7,091.0	7,092.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			7,247.0	7,248.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			7,289.0	7,290.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,355.0	7,356.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,375.0	7,376.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

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
1/4/2013 12:00AM	MESAVERDE/			7,384.0	7,385.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,400.0	7,401.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,419.0	7,420.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,446.0	7,447.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,475.0	7,476.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,497.0	7,498.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,515.0	7,516.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,532.0	7,533.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,552.0	7,553.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,604.0	7,605.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,645.0	7,646.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,679.0	7,680.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,729.0	7,730.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,747.0	7,748.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,804.0	7,805.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,869.0	7,870.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,883.0	7,884.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,087.0	8,088.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,117.0	8,119.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,210.0	8,212.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,274.0	8,276.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

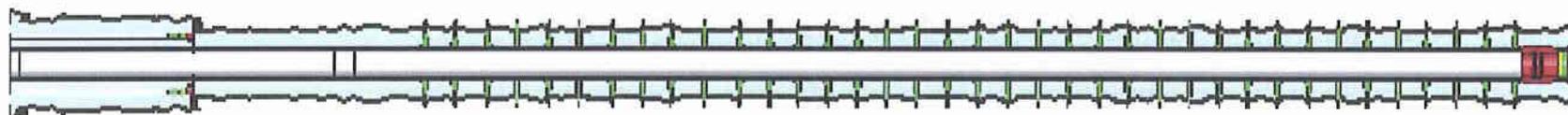
Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
1/4/2013 12:00AM	MESAVERDE/			8,325.0	8,326.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,349.0	8,350.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,366.0	8,367.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,395.0	8,396.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,414.0	8,415.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,489.0	8,490.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,507.0	8,508.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,518.0	8,519.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,564.0	8,565.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,584.0	8,585.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,622.0	8,623.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,641.0	8,642.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,671.0	8,672.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,706.0	8,707.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,740.0	8,741.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,800.0	8,801.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,830.0	8,831.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,845.0	8,846.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,871.0	8,872.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,907.0	8,908.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,956.0	8,957.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

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
1/4/2013 12:00AM	MESAVERDE/			8,991.0	8,992.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			9,017.0	9,018.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			9,035.0	9,036.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			9,139.0	9,140.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			9,193.0	9,194.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			9,218.0	9,219.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			9,233.0	9,235.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			9,316.0	9,318.0	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 921-36F1BS RED		Spud Date: 6/7/2012	
Project: UTAH-UINTAH		Site: MORGAN STATE 921-36F2 PAD	Rig Name No: MILES 2/2
Event: COMPLETION		Start Date: 12/5/2012	End Date: 1/23/2013
Active Datum: RKB @5,018.00usft (above Mean Sea Level)		UWI: SE/NW/0/9/S/21/E/36/0/0/26/PM/N/1512/W/0/1807/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
6/7/2012	-							
12/5/2012	8:00 - 9:30	1.50	FRAC	33	C	P		RU HOT OILER, FILLED SURFACE WITH 8 BBLS H2O, PRESSURED TO 1000 PSI, BROKE BACK TO 800 PSI, PUMPED 10 BBLS @ 1-2 BPM 800 PSI ISIP 800 PSI, BLED WELL DOWN SWIFN
12/6/2012	-							
12/10/2012	14:00 - 17:00	3.00	FRAC	51	B	P		RU SCHLUMBERGER, ESTABLISH INJECTION RATE 3 BPM 925 PSI PUMPED 10 BBLS FRESH WATER PUMPED 20 BBLS CALCIUM WATER PUMPED 10 BBLS FRESH WATER PUMPED 20 BBLS ZONELOCK PUMPED 10 BBLS FRESH WATER MIXED AND PUMPED 760 SKS THIXOTROPIC CLASS G CEMENT 261 BBLS SLURY @ 12.5 PPG @ AVG RATE 3.9 BPM 475 PSI FLUSHED WITH 3 BBLS FRESH WATER FINAL PSI 369 PSI SHUT WELL IN TOTAL FLUID PUMPED 331 BBLS THE REASON WE PUMPED SO MUCH CEMENT WAS THAT WE COULDN'T PUMP INTO THE MORGAN STATES 921-36H4BS AND WE HAD TO BUY THE CEMENT
12/13/2012	11:30 - 14:00	2.50	FRAC	41	A	P		RU WL RAN CBL FROM 3675' TO SURFACE, GOOD BOND FROM 3675 TO SURFACE, RD WL
1/8/2013	7:00 - 8:00	1.00	FRAC	33	C	P		FILL SURFACE CSG. MIRU CAMERON QUICK TEST. 1ST PSI TEST T/ 7000 PSI. HELD FOR 15 MIN LOST 39 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG
1/14/2013	7:00 - 13:00	6.00	FRAC	37	B	P		BLEED OFF PSI. MOVE T/ NEXT WELL.SWIFN HSM, RIGGING UP, MIRU CASED HOLE SOLUTIONS, PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW
1/15/2013	6:30 - 6:45	0.25	FRAC	48	B	P		HSM, REVIEW FRAC DESIGN, AND COLD WEATHER [-21 DEEGREE]

**US ROCKIES REGION
Operation Summary Report**

Well: MORGAN STATE 921-36F1BS RED		Spud Date: 6/7/2012	
Project: UTAH-UINTAH	Site: MORGAN STATE 921-36F2 PAD	Rig Name No: MILES 2/2	
Event: COMPLETION	Start Date: 12/5/2012	End Date: 1/23/2013	
Active Datum: RKB @5,018.00usft (above Mean Sea Level)		UWI: SE/NW/0/9/S/21/E/36/0/0/26/PM/N/1512/W/0/1807/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:45 - 18:30	11.75	FRAC	36	B	P		<p>PERF & FRAC FOLLOWING WELL AS PER DESIGN W/ 30/50 MESH SAND & SLK WTR. ALL CBP'S ARE HALIBURTON 8K CBP'S. REFER TO STIM PJR FOR FLUID, SAND AND CHEMICAL VOLUME PUM'D</p> <p>FRAC STG #1] WHP=220#, BRK DN PERFS=4,687#, @=5.0 BPM, INJ RT=50, INJ PSI=5,099#, INITIAL ISIP=2,941#, INITIAL FG=.76, FINAL ISIP=2,940#, FINAL FG=.76, AVERAGE RATE=49.8, AVERAGE PRESSURE=5,112#, MAX RATE=50.3, MAX PRESSURE=5,837#, NET PRESSURE INCREASE=29#, 21/21 100% CALC PERFS OPEN. X OVER TO WIRE LINE</p>
	18:30 - 23:59	5.48	FRAC	34		S		<p>PERF STG #2] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, [GUN GOT PUMPED OFF LINE LOSING IT IN WELL, REFLUSHED WELL, P/U GAUGE RING, RIH TAGGED TOP OF GUN @=9,354]</p>
1/16/2013	0:00 - 7:00	7.00	FRAC	34		S		<p>WAIT ON CUTTERS WIRE LINE BRADED TRUCK TO TRY TO FISH GUN, MIRU, P/U TOOLS TO FISH GUN, EQUALIZED WELL AND FROZE LUBE HAD TO LAY DOWN AND THAW, STARTED OVER RIH W/ BRADED LINE TRUCK W/ OVER SHOT, TAGGED FISH TOP @=9345' SET JARS OFF ONE TIME PULLED GUN FREE POOH, LAID DOWN GUN, RIGGED DOWN CUTTERS, MIRU CASED HOLE HOLE TO START FRAC.</p>

**US ROCKIES REGION
Operation Summary Report**

Well: MORGAN STATE 921-36F1BS RED

Spud Date: 6/7/2012

Project: UTAH-UINTAH

Site: MORGAN STATE 921-36F2 PAD

Rig Name No: MILES 2/2

Event: COMPLETION

Start Date: 12/5/2012

End Date: 1/23/2013

Active Datum: RKB @5,018.00usft (above Mean Sea Level)

UWI: SE/NW/0/9/S/21/E/36/0/0/26/PM/N/1512/W/0/1807/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:00 - 17:30	10.50	FRAC	36	B	P		<p>PERF STG #2] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @= 9066', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #2] WHP= 1265#, BRK DN PERFS= 3389#, @= 3.9 BPM, INJ RT= 51.5 BPM,, INJ PSI= 4989#, INITIAL ISIP= 2089#, INITIAL FG= 0.69, FINAL ISIP= 2782#, FINAL FG= 0.75, AVERAGE RATE= 50.9 BPM, AVERAGE PRESSURE= 4881#, MAX RATE= 53.3 BPM, MAX PRESSURE= 5970#, NET PRESSURE INCREASE= 693#, CALC 96% PERFS OPEN. (23/24), X OVER TO WIRE LINE</p> <p>PERF STG #3] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @= 8811', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #3] WHP= 2505#, BRK DN PERFS= 3879#, @= 4.1 BPM, INJ RT= 53.6 BPM, INJ PSI= 4696#, INITIAL ISIP= 2200#, INITIAL FG= 0.69, FINAL ISIP= 2575#, FINAL FG= 0.74, AVERAGE RATE= 52.8 BPM, AVERAGE PRESSURE= 4646#, MAX RATE= 54.7 BPM, MAX PRESSURE= 5618#, NET PRESSURE INCREASE= 376#, CALC 100% PERFS OPEN. (24/24 HOLES), X OVER TO WIRE LINE</p> <p>PERF STG #4] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @= 8549', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW, SVMDFN JSA-SAFETY MEETING, COLD WEATHER WORKING</p>
1/17/2013	6:30 - 7:00	0.50	FRAC	36	B	P		

**US ROCKIES REGION
Operation Summary Report**

Well: MORGAN STATE 921-36F1BS RED

Spud Date: 6/7/2012

Project: UTAH-UINTAH

Site: MORGAN STATE 921-36F2 PAD

Rig Name No: MILES 2/2

Event: COMPLETION

Start Date: 12/5/2012

End Date: 1/23/2013

Active Datum: RKB @5,018.00usft (above Mean Sea Level)

UWM: SE/NW/0/9/S/21/E/36/0/0/26/PM/N/1512/W/0/1807/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:00 - 17:30	10.50	FRAC	36	B	P		<p>FRAC STG #4] WHP= 1880#, BRK DN PERFS= 2653#, @= 4.3 BPM, INJ RT= 51.5 BPM, INJ PSI= 4254#, INITIAL ISIP= 2052#, INITIAL FG= 0.68, FINAL ISIP= 2540#, FINAL FG= 0.74, AVERAGE RATE= 50.8, AVERAGE PRESSURE= 4357#, MAX RATE= 51.9, MAX PRESSURE= 4970#, NET PRESSURE INCREASE= 488#, CALC 100% PERFS OPEN. (24/24 HOLES) X OVER TO WIRE LINE</p> <p>PERF STG #5] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @= 8306', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #5] WHP= 1945#, BRK DN PERFS= 3522#, @= 3.8 BPM, INJ RT= 51.6 BPM, INJ PSI= 5016#, INITIAL ISIP= 1879#, INITIAL FG= 0.67, FINAL ISIP= 2627#, FINAL FG= 0.67, AVERAGE RATE= 50.9, AVERAGE PRESSURE= 4737#, MAX RATE= 51.9 BPM, MAX PRESSURE= 5647#, NET PRESSURE INCREASE= 748#, CALC 95% PERFS OPEN. (20/21 HOLES) X OVER TO WIRE LINE</p> <p>PERF STG #6] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @= 7914', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #6] WHP= 653#, BRK DN PERFS= 2411#, @= 3.8 BPM, INJ RT= 49.1 BPM, INJ PSI= 5327#, INITIAL ISIP= 1877#, INITIAL FG= 0.68, FINAL ISIP= 2487#, FINAL FG= 0.76, AVERAGE RATE= 48.6 BPM, AVERAGE PRESSURE= 4680#, MAX RATE= 49.4 BPM, MAX PRESSURE= 5484#, NET PRESSURE INCREASE= 610#, CALC 81% PERFS OPEN. (17/21 HOLES), X OVER TO WIRE LINE</p> <p>PERF STG #7] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @= 7635', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN</p> <p>FRAC STG #7] WHP= 1505#, BRK DN PERFS= 2512#, @= 4.2 BPM, INJ RT= 50.8 BPM, INJ PSI= 3909#, INITIAL ISIP= 1695#, INITIAL FG= 0.66, FINAL ISIP= 2095#, FINAL FG= 0.72, AVERAGE RATE= 50.2 BPM, AVERAGE PRESSURE= 3940#, MAX RATE= 50.9, MAX</p>

US ROCKIES REGION

Operation Summary Report

Well: MORGAN STATE 921-36F1BS RED Spud Date: 6/7/2012

Project: UTAH-UINTAH Site: MORGAN STATE 921-36F2 PAD Rig Name No: MILES 2/2

Event: COMPLETION Start Date: 12/5/2012 End Date: 1/23/2013

Active Datum: RKB @5,018.00usft (above Mean Sea Level) UWM: SE/NW/0/9/S/21/E/36/0/0/26/PM/N/1512/W/0/1807/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
1/18/2013	6:30 - 7:00	0.50	FRAC	48		P		<p>PRESSURE= 5599#, NET PRESSURE INCREASE= 400#, CALC 100% PERFS OPEN. (21/21 HOLES) X OVER TO WRE LINE</p> <p>PERF STG #8] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @= 7430', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #8] WHP= 1550#, BRK DN PERFS= 2146#, @= 4.6 BPM, INJ RT= 52.2, INJ PSI= 3714#, INITIAL ISIP= 1655#, INITIAL FG= 0.66, FINAL ISIP = 2126#, FINAL FG= 0.73, AVERAGE RATE= 51.6 BPM, AVERAGE PRESSURE= 3726#, MAX RATE= 52.4, MAX PRESSURE= 4992#, NET PRESSURE INCREASE= 471#, CALC 100% PERFS OPEN. (21/21 HOLES), SHUT WELL IN SDFN, JSA-SAFETY MEETING</p>

US ROCKIES REGION
Operation Summary Report

Well: MORGAN STATE 921-36F1BS RED		Spud Date: 6/7/2012	
Project: UTAH-UINTAH		Site: MORGAN STATE 921-36F2 PAD	Rig Name No: MILES 2/2
Event: COMPLETION		Start Date: 12/5/2012	End Date: 1/23/2013
Active Datum: RKB @5,018.00usft (above Mean Sea Level)		UWI: SE/NW/0/9/S/21/E/36/0/0/26/PM/N/1512/W/0/1807/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:00 - 17:30	10.50	FRAC	36	B	P		<p>PERF STG #9] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @= 7122', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #9] WHP= 258#, BRK DN PERFS= 2181#, @= 4.4 BPM, INJ RT= 49.9, INJ PSI= 3746#, INITIAL ISIP= 986#, INITIAL FG= 0.58, FINAL ISIP= 2404#, FINAL FG= 0.78, AVERAGE RATE= 49.3 BPM, AVERAGE PRESSURE= 3944#, MAX RATE= 49.9, MAX PRESSURE= 5119#, NET PRESSURE INCREASE= 1418#, CALC 95% PERFS OPEN. (20/21 HOLES), X OVER TO WIRE LINE</p> <p>PERF STG #10] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @= 6817', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN</p> <p>FRAC STG #10] WHP = 258#, BRK DN PERFS = 3012#, @ 4.4 BPM, INJ RT = 49.5 BPM, INT PSI = 3905#, INITAL ISIP = 1855#, INITAL FG = 0.72 , FINAL ISIP = 2011#, FINIAL FG = 0.74 , AVERAGE RATE = 49.5 BPM, AVERAGE PSI = 3821# , MAX RATE = 50.2 BPM, MAX PSI = 5053 #, NET PRESSURE INCREASE = 156 #, CALC 100% PERF OPEN, (21/21HOLES), X OVER TO WIRELINE</p> <p>PERF STG #11] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @= 6534', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #11] WHP= 450#, BRK DN PERFS= 2518#, @= 4.6 BPM, INJ RT= 49.8 BPM, INJ PSI= 3477#, INITIAL ISIP= 1799#, INITIAL FG= 0.72, FINAL ISIP= 1788#, FINAL FG= 0.72, AVERAGE RATE= 48.5 BPM, AVERAGE PRESSURE= 3005#, MAX RATE= 49.5 BPM, MAX PRESSURE= 3891#, NET PRESSURE INCREASE= - 11#, CALC 100% PERFS OPEN. (21/21 HOLES), X OVER TO WIRE LINE</p> <p>PERF STG #12] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @= 6238', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN</p> <p>FRAC STG #12] WHP = 200 #, BRK DN PERFS = 2480#, @ 4.1 BPM,</p>

**US ROCKIES REGION
Operation Summary Report**

Well: MORGAN STATE 921-36F1BS RED Spud Date: 6/7/2012
 Project: UTAH-UINTAH Site: MORGAN STATE 921-36F2 PAD Rig Name No: MILES 2/2
 Event: COMPLETION Start Date: 12/5/2012 End Date: 1/23/2013
 Active Datum: RKB @5,018.00usft (above Mean Sea Level) UWI: SE/NW/0/9/S/21/E/36/0/0/26/PM/N/1512/W/0/1807/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
								INJ RT = 47.4 BPM, INJ PSI = 3415 #, INITIAL ISIP = 1339#, INITIAL FG = 0.66 , FINAL ISIP = 1425 #, FINIAL FG = 0.67, AVERAGE RATE = 47.2 BPM, AVERAGE PSI = 2799# , MAX RATE = 47.7 BPM, MAX PSI = 4060#, NET PRESSURE INCREASE = 86 #, CALC 96% PERF OPEN, (23/24HOLES) X OVER TO WIRELINE KILL PLUG) RIH W/HALLIBURTON 8K CBP, SET CBP @6071', SWI, R/D WIRELINE AND FRAC CREW, TOTAL WATER = 14683 BBLS TOTAL SAND = 333161 # TIH TBG MIRU, NDWH, NU BOP'S, PU POBS, BIT, SN, TIH TBG, 191 JTS, 6071', TAG KILL PLUG, BREAK CIRC, PRESSURE TEST BOP'S, 3000#, PU PWR SWIVEL, MILL 7 CBP'S, 242 JTS, 7680', WINTERIZE RIG, SMFN PLUG# 1 6071' 0' SAND 5 MIN 100# KICK PLUG# 2 6238' 10' SAND 5 MIN 0# KICK PLUG# 3 6534' 20' SAND 5 MIN 200# KICK PLUG# 4 6817' 30' SAND 5 MIN 200# KICK PLUG# 5 7122' 50' SAND 5 MIN 500# KICK PLUG# 6 7436' 50' SAND 5 MIN 400# KICK PLUG# 7 7635' 30' SAND 5 MIN 200# KICK LANDING TBG PU PWR SWIVEL, MILL 5 CBP'S, C/O 40' SAND, TO PBTd, 298 JTS, 9424', POOH TO 8780.88', 277 JTS, LAND TBG, ND BOP'S, NUWH, TEST FLOW LINE, 3000#, POBS 2000#, TURN TO FBC 12:30 PM RDMO TO MS 921-36G1BS PLUG# 8 7914' 50' SAND 5 MIN 1000# KICK PLUG# 9 8306' 30' SAND 5 MIN 1100# KICK PLUG# 10 8549' 30' SAND 5 MIN 1000# KICK PLUG# 11 8811' 90 SAND 5 MIN 800# KICK PLUG# 12 9066' 30' SAND 5 MIN 800# KICK PBTd 9,424' BTM PERF 9,318' TBG 277 JTS 8753.85' KB 14.00' HANGER 4.125" .83' SN 1.875" 2.20' EOT 8780.88' FRAC WTR 14,484 BBLS RCVD 3,100 BBLS LTR 11,384 BBLS
1/22/2013	7:00 - 7:30	0.50	DRLOUT	48		P		
	7:30 - 17:00	9.50	DRLOUT	44	C	P		
1/23/2013	7:00 - 7:30	0.50	DRLOUT	48		P		
	7:30 - 17:00	9.50	DRLOUT	44	C	P		

US ROCKIES REGION

Operation Summary Report

Well: MORGAN STATE 921-36F1BS RED Spud Date: 6/7/2012

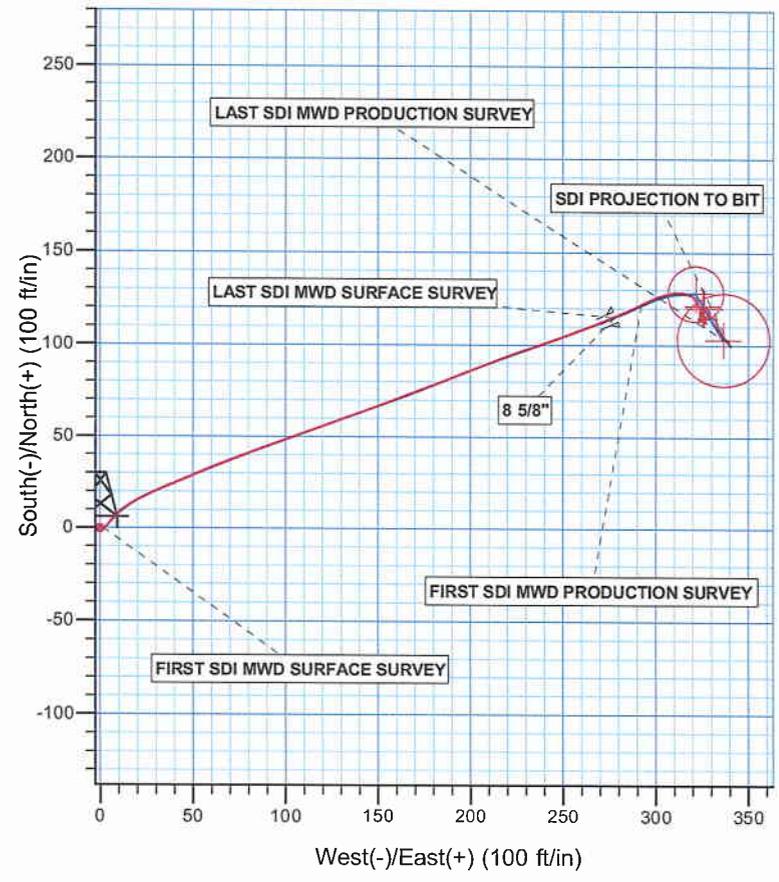
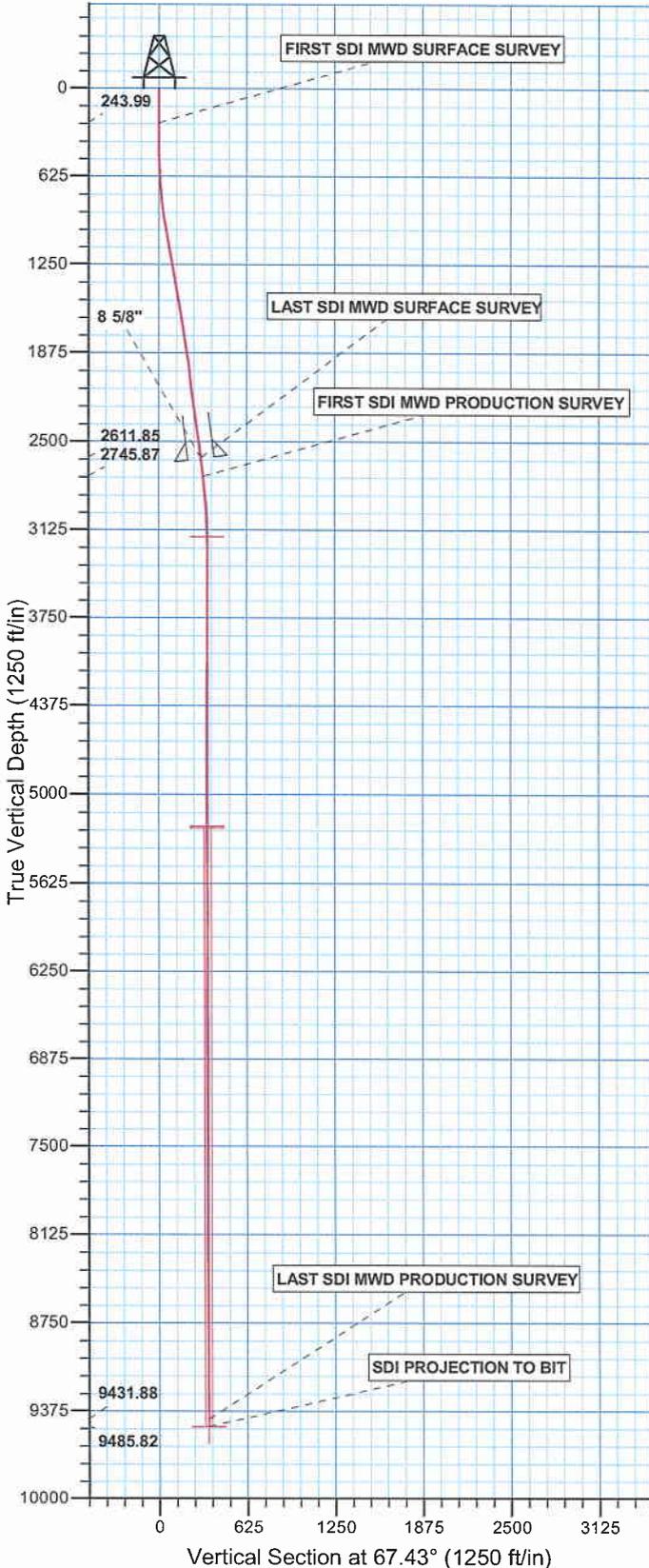
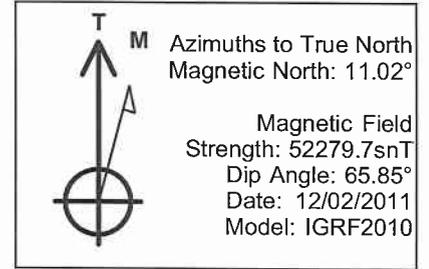
Project: UTAH-UINTAH Site: MORGAN STATE 921-36F2 PAD Rig Name No: MILES 2/2

Event: COMPLETION Start Date: 12/5/2012 End Date: 1/23/2013

Active Datum: RKB @5,018.00usft (above Mean Sea Level) UWI: SE/NW0/9/S/21/E/36/0/0/26/PM/N/1512/W/0/1807/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	17:00 - 17:00	0.00	DRLOUT	50				WELL TURNED TO SALES @ 1530 HR ON 1/23/2013. 800 MCFD, 1560 BWPDP, FCP 2300#, FTP 1900#, 20/64" CK.
1/30/2013	7:00 -			50				WELL IP'D ON 1/30/13 - 2554 MCFD, 0 BWPDP, 0 BOPD, CP 1790#, FTP 1324#, LP 124#, 24 HRS, CK 20/64

WELL DETAILS: MORGAN STATE 921-36F1BS					
GL 4994 & KB 24 @ 5018.00ft (HP 318)					
+N/-S 0.00	+E/-W 0.00	Northing 14527976.04	Easting 2059883.11	Latitude 39.995627	Longitude -109.502343



PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N
Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Zone 12N (114 W to 108 W)
Location: SECTION 36 T9S R21E
System Datum: Mean Sea Level

Design: OH (MORGAN STATE 921-36F1BS/OH)
 Created By: Gabe Kendall Date: 16:04, September 05 2012



Scientific Drilling

US ROCKIES REGION PLANNING

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

MORGAN STATE 921-36F2 PAD

MORGAN STATE 921-36F1BS

OH

Design: OH

Standard Survey Report

05 September, 2012

Anadarko 
Petroleum Corporation

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well MORGAN STATE 921-36F1BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL 4994 & KB 24 @ 5018.00ft (HP 318)
Site:	MORGAN STATE 921-36F2 PAD	MD Reference:	GL 4994 & KB 24 @ 5018.00ft (HP 318)
Well:	MORGAN STATE 921-36F1BS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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 921-36F2 PAD, SECTION 36 T9S R21E				
Site Position:		Northing:	14,527,976.05 usft	Latitude:	39.995627
From:	Lat/Long	Easting:	2,059,883.10 usft	Longitude:	-109.502343
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.96 °

Well	MORGAN STATE 921-36F1BS, 1512 FNL 1807 FWL					
Well Position	+N/-S	0.00 ft	Northing:	14,527,976.05 usft	Latitude:	39.995627
	+E/-W	0.00 ft	Easting:	2,059,883.10 usft	Longitude:	-109.502343
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,994.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/02/11	11.02	65.85	52,280

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	67.43	

Survey Program	Date	09/05/12			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
15.00	2,634.00	Survey #1 SDI MWD SURFACE (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1	
2,769.00	9,511.00	Survey #2 SDI MWD PRODUCTION (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1	

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	
15.00	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	
244.00	0.70	85.92	243.99	0.10	1.40	1.33	0.31	0.31	0.00	
FIRST SDI MWD SURFACE SURVEY										
335.00	0.29	93.71	334.99	0.12	2.18	2.06	0.46	-0.45	8.56	
426.00	0.88	45.14	425.99	0.60	2.90	2.91	0.79	0.65	-53.37	
521.00	2.22	40.38	520.95	2.52	4.61	5.23	1.42	1.41	-5.01	
616.00	3.35	40.20	615.84	6.04	7.60	9.33	1.19	1.19	-0.19	
711.00	4.84	51.29	710.59	10.67	12.52	15.65	1.77	1.57	11.67	
807.00	6.24	61.23	806.14	15.71	20.25	24.73	1.76	1.46	10.35	

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: MORGAN STATE 921-36F2 PAD
Well: MORGAN STATE 921-36F1BS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well MORGAN STATE 921-36F1BS
TVD Reference: GL 4994 & KB 24 @ 5018.00ft (HP 318)
MD Reference: GL 4994 & KB 24 @ 5018.00ft (HP 318)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

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)	
901.00	7.74	65.97	899.44	20.75	30.51	36.14	1.71	1.60	5.04	
995.00	9.15	66.76	992.42	26.27	43.16	49.94	1.51	1.50	0.84	
1,088.00	9.58	67.47	1,084.18	32.16	57.10	65.07	0.48	0.46	0.76	
1,183.00	10.08	69.22	1,177.79	38.14	72.18	81.29	0.61	0.53	1.84	
1,278.00	10.46	68.52	1,271.26	44.24	87.98	98.22	0.42	0.40	-0.74	
1,371.00	10.82	70.89	1,362.67	50.19	104.08	115.37	0.61	0.39	2.55	
1,465.00	10.46	69.75	1,455.05	56.03	120.42	132.70	0.44	-0.38	-1.21	
1,562.00	9.32	69.22	1,550.61	61.87	136.03	149.35	1.18	-1.18	-0.55	
1,655.00	9.67	70.19	1,642.33	67.19	150.42	164.68	0.41	0.38	1.04	
1,751.00	8.84	69.23	1,737.08	72.54	164.90	180.11	0.88	-0.86	-1.00	
1,844.00	9.04	68.42	1,828.95	77.76	178.37	194.56	0.25	0.22	-0.87	
1,938.00	7.74	69.40	1,921.94	82.70	191.17	208.27	1.39	-1.38	1.04	
2,032.00	7.39	68.34	2,015.13	87.16	202.71	220.64	0.40	-0.37	-1.13	
2,124.00	7.39	67.73	2,106.36	91.59	213.68	232.47	0.09	0.00	-0.66	
2,216.00	7.65	71.10	2,197.57	95.81	224.95	244.50	0.56	0.28	3.66	
2,307.00	7.74	71.60	2,287.75	99.71	236.50	256.65	0.12	0.10	0.55	
2,402.00	7.91	68.26	2,381.87	104.15	248.64	269.57	0.51	0.18	-3.52	
2,493.00	7.65	70.10	2,472.03	108.53	260.15	281.88	0.40	-0.29	2.02	
2,587.00	7.31	68.27	2,565.23	112.87	271.59	294.11	0.44	-0.36	-1.95	
2,634.00	7.30	66.85	2,611.85	115.15	277.11	300.09	0.38	-0.02	-3.02	
LAST SDI MWD SURFACE SURVEY										
2,769.00	6.51	63.75	2,745.87	121.91	291.86	316.30	0.65	-0.59	-2.30	
FIRST SDI MWD PRODUCTION SURVEY										
2,863.00	5.72	67.79	2,839.33	126.04	300.98	326.30	0.96	-0.84	4.30	
2,958.00	4.48	79.65	2,933.96	128.49	309.01	334.66	1.71	-1.31	12.48	
3,052.00	3.43	101.71	3,027.74	128.58	315.38	340.58	1.95	-1.12	23.47	
3,146.00	3.08	128.08	3,121.59	126.45	320.12	344.14	1.62	-0.37	28.05	
3,241.00	1.67	170.09	3,216.51	123.52	322.37	345.09	2.27	-1.48	44.22	
3,335.00	0.88	137.92	3,310.49	121.63	323.09	345.03	1.10	-0.84	-34.22	
3,429.00	1.23	170.62	3,404.48	120.10	323.74	345.04	0.73	0.37	34.79	
3,524.00	0.97	39.22	3,499.47	119.72	324.41	345.51	2.11	-0.27	-138.32	
3,618.00	0.62	46.78	3,593.46	120.68	325.28	346.69	0.39	-0.37	8.04	
3,713.00	0.35	134.67	3,688.46	120.83	325.87	347.28	0.74	-0.28	92.52	
3,807.00	0.79	142.93	3,782.45	120.11	326.46	347.56	0.47	0.47	8.79	
3,902.00	0.53	253.76	3,877.45	119.47	326.43	347.29	1.15	-0.27	116.66	
3,996.00	0.70	234.87	3,971.44	119.01	325.55	346.29	0.28	0.18	-20.10	
4,091.00	0.88	235.57	4,066.43	118.27	324.47	345.01	0.19	0.19	0.74	
4,186.00	1.41	183.63	4,161.42	116.69	323.79	343.78	1.17	0.56	-54.67	
4,280.00	0.53	191.19	4,255.40	115.11	323.64	343.03	0.94	-0.94	8.04	
4,375.00	0.26	312.48	4,350.40	114.82	323.39	342.70	0.74	-0.28	127.67	
4,469.00	0.26	242.60	4,444.40	114.87	323.05	342.39	0.32	0.00	-74.34	
4,564.00	0.26	165.87	4,539.40	114.56	322.91	342.15	0.34	0.00	-80.77	
4,658.00	0.44	166.31	4,633.40	114.00	323.04	342.06	0.19	0.19	0.47	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well MORGAN STATE 921-36F1BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL 4994 & KB 24 @ 5018.00ft (HP 318)
Site:	MORGAN STATE 921-36F2 PAD	MD Reference:	GL 4994 & KB 24 @ 5018.00ft (HP 318)
Well:	MORGAN STATE 921-36F1BS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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)
4,753.00	1.06	63.13	4,728.39	114.05	323.91	342.88	1.30	0.65	-108.61
4,847.00	0.88	61.64	4,822.38	114.78	325.33	344.46	0.19	-0.19	-1.59
4,942.00	0.88	329.61	4,917.37	115.76	325.60	345.09	1.33	0.00	-96.87
5,036.00	0.79	305.09	5,011.36	116.75	324.70	344.65	0.39	-0.10	-26.09
5,131.00	0.70	306.06	5,106.35	117.47	323.70	343.99	0.10	-0.09	1.02
5,225.00	0.88	25.51	5,200.35	118.46	323.54	344.23	1.08	0.19	84.52
5,319.00	0.70	359.85	5,294.34	119.69	323.85	344.99	0.42	-0.19	-27.30
5,414.00	1.06	87.12	5,389.33	120.31	324.73	346.04	1.31	0.38	91.86
5,508.00	0.97	97.50	5,483.31	120.25	326.39	347.54	0.22	-0.10	11.04
5,603.00	0.53	99.60	5,578.31	120.07	327.62	348.61	0.46	-0.46	2.21
5,697.00	0.79	161.04	5,672.30	119.39	328.26	348.94	0.76	0.28	65.36
5,792.00	0.88	152.34	5,767.29	118.12	328.81	348.96	0.16	0.09	-9.16
5,886.00	0.09	296.22	5,861.29	117.51	329.08	348.98	1.02	-0.84	153.06
5,981.00	0.18	207.18	5,956.29	117.41	328.94	348.82	0.21	0.09	-93.73
6,076.00	0.79	170.44	6,051.28	116.64	328.98	348.55	0.69	0.64	-38.67
6,170.00	0.70	266.16	6,145.28	115.96	328.52	347.86	1.18	-0.10	101.83
6,264.00	0.70	277.23	6,239.27	115.99	327.37	346.82	0.14	0.00	11.78
6,359.00	0.44	205.07	6,334.27	115.73	326.64	346.05	0.74	-0.27	-75.96
6,453.00	0.79	211.93	6,428.26	114.86	326.15	345.25	0.38	0.37	7.30
6,548.00	0.53	232.06	6,523.26	114.03	325.46	344.30	0.36	-0.27	21.19
6,642.00	0.26	39.05	6,617.26	113.93	325.25	344.07	0.84	-0.29	177.65
6,736.00	0.26	101.71	6,711.25	114.05	325.59	344.43	0.29	0.00	66.66
6,831.00	0.79	139.98	6,806.25	113.51	326.22	344.80	0.64	0.56	40.28
6,925.00	0.70	132.39	6,900.24	112.62	327.06	345.24	0.14	-0.10	-8.07
7,019.00	0.35	322.14	6,994.24	112.46	327.31	345.41	1.11	-0.37	-181.12
7,114.00	0.44	284.35	7,089.24	112.78	326.78	345.04	0.28	0.09	-39.78
7,208.00	0.70	159.19	7,183.24	112.34	326.63	344.74	1.08	0.28	-133.15
7,303.00	1.23	322.32	7,278.23	112.60	326.22	344.45	2.01	0.56	171.72
7,397.00	0.53	343.15	7,372.22	113.81	325.47	344.23	0.81	-0.74	22.16
7,491.00	0.26	345.52	7,466.22	114.44	325.30	344.31	0.29	-0.29	2.52
7,585.00	0.26	268.18	7,560.22	114.64	325.03	344.14	0.35	0.00	-82.28
7,679.00	0.70	65.24	7,654.21	114.87	325.34	344.51	1.01	0.47	167.09
7,774.00	0.70	88.97	7,749.21	115.12	326.44	345.63	0.30	0.00	24.98
7,868.00	0.44	330.05	7,843.20	115.45	326.84	346.12	1.05	-0.28	-126.51
7,963.00	0.18	42.74	7,938.20	115.87	326.76	346.21	0.45	-0.27	76.52
8,057.00	0.88	139.68	8,032.20	115.43	327.32	346.56	0.98	0.74	103.13
8,152.00	0.70	248.32	8,127.19	114.66	327.26	346.20	1.36	-0.19	114.36
8,246.00	0.35	231.18	8,221.19	114.27	326.50	345.35	0.40	-0.37	-18.23
8,340.00	0.53	175.37	8,315.19	113.65	326.31	344.94	0.47	0.19	-59.37
8,435.00	1.06	9.87	8,410.18	114.08	326.50	345.28	1.66	0.56	-174.21
8,529.00	0.62	353.70	8,504.17	115.44	326.59	345.89	0.53	-0.47	-17.20
8,623.00	0.88	74.56	8,598.17	116.14	327.23	346.75	1.06	0.28	86.02
8,718.00	0.62	52.41	8,693.16	116.65	328.34	347.97	0.41	-0.27	-23.32
8,812.00	0.88	123.86	8,787.15	116.56	329.34	348.86	0.96	0.28	76.01

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well MORGAN STATE 921-36F1BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL 4994 & KB 24 @ 5018.00ft (HP 318)
Site:	MORGAN STATE 921-36F2 PAD	MD Reference:	GL 4994 & KB 24 @ 5018.00ft (HP 318)
Well:	MORGAN STATE 921-36F1BS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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)
8,907.00	1.06	127.38	8,882.14	115.62	330.65	349.70	0.20	0.19	3.71
9,001.00	1.14	131.68	8,976.12	114.47	332.04	350.54	0.12	0.09	4.57
9,095.00	1.49	172.73	9,070.10	112.63	332.89	350.63	1.04	0.37	43.67
9,190.00	1.85	155.90	9,165.06	110.01	333.67	350.34	0.64	0.38	-17.72
9,284.00	1.67	147.42	9,259.02	107.47	335.03	350.62	0.34	-0.19	-9.02
9,379.00	2.46	141.00	9,353.95	104.72	337.06	351.44	0.87	0.83	-6.76
9,457.00	2.64	148.12	9,431.88	101.89	339.06	352.20	0.47	0.23	9.13
LAST SDI MWD PRODUCTION SURVEY									
9,511.00	2.64	148.12	9,485.82	99.78	340.37	352.61	0.00	0.00	0.00
SDI PROJECTION TO BIT									

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,642.00	2,619.78	8 5/8"	8.625	11.000

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
244.00	243.99	0.10	1.40	FIRST SDI MWD SURFACE SURVEY
2,634.00	2,611.85	115.15	277.11	LAST SDI MWD SURFACE SURVEY
2,769.00	2,745.87	121.91	291.86	FIRST SDI MWD PRODUCTION SURVEY
9,457.00	9,431.88	101.89	339.06	LAST SDI MWD PRODUCTION SURVEY
9,511.00	9,485.82	99.78	340.37	SDI PROJECTION TO BIT

Checked By: _____ Approved By: _____ Date: _____

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

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 921-36F1BS

9. API NUMBER:
4304752281

10. FIELD AND POOL, OR WILDCAT
NATURAL BUTTES

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
SENW 36 T9S 21E S

12. COUNTY
UINTAH

13. STATE
UTAH

1a. TYPE OF WELL: OIL WELL GAS WELL DRY OTHER _____

b. TYPE OF WORK: NEW WELL HORIZ. LATS. DEEP-EN RE-ENTRY DIFF. RESVR. OTHER _____

2. NAME OF OPERATOR:
KERR MCGEE OIL & GAS ONSHORE, L.P.

3. ADDRESS OF OPERATOR: P.O. BOX 173779 CITY DENVER STATE CO ZIP 80217 PHONE NUMBER: (720) 929-6000

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: **SENW 1512 FNL 1807 FWL S36,T9S,R21E**
AT TOP PRODUCING INTERVAL REPORTED BELOW: **SENW 1395 FNL 2136 FWL S36,T9S,R21E**
AT TOTAL DEPTH: **SENW 1412 FNL 2147 FWL S36,T9S,R21E**

14. DATE SPURRED: **5/26/2012**

15. DATE T.D. REACHED: **8/28/2012**

16. DATE COMPLETED: **1/23/2013** ABANDONED READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL): **5018 RKB**

18. TOTAL DEPTH: MD **9,511** TVD **9,486**

19. PLUG BACK T.D.: MD **9,424** TVD **9,399**

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)
BHP-HDIL/ZDL/CNGR-CBL/GR/CCL/TEMP-GR/CBL

23. WAS WELL CORED? NO YES (Submit analysis)
WAS DST RUN? NO YES (Submit report)
DIRECTIONAL SURVEY? NO YES (Submit copy)

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

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#	0	40		28			
11"	8 5/8" IJ-55	28#	0	2,657		600		0	
7 7/8"	4 1/2" I-80	11.6#	0	9,471		2,529		50	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	8,781							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) WASATCH	6,121	7,290			6,121 7,290	0.36	93	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B) MESAVERDE	7,355	9,318			7,355 9,318	0.36	171	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
6121-9318	PUMP 14,683 BBLS SLICK H2O & 333,161 LBS 30/50 OTTAWA SAND 12 STAGES

RECEIVED
FEB 27 2013
DIV. OF OIL, GAS & MINING

29. ENCLOSED ATTACHMENTS:

ELECTRICAL/MECHANICAL LOGS GEOLOGIC REPORT DST REPORT DIRECTIONAL SURVEY

SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION CORE ANALYSIS OTHER: _____

30. WELL STATUS:
PROD

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 1/23/2013		TEST DATE: 1/30/2013		HOURS TESTED: 24		TEST PRODUCTION RATES: →		OIL - BBL: 0	GAS - MCF: 2,554	WATER - BBL: 0	PROD. METHOD: FLOWING
CHOKE SIZE: 20/64	TBG. PRESS. 1,324	CSG. PRESS. 1,790	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 2,554	WATER - BBL: 0	INTERVAL STATUS: PROD	

INTERVAL B (As shown in item #26)

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

INTERVAL C (As shown in item #26)

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

INTERVAL D (As shown in item #26)

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

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

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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

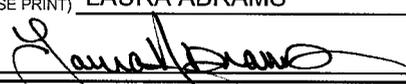
34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				GREEN RIVER	1,426
				BIRD'S NEST	1,658
				MAHOGANY	2,079
				WASATCH	4,658
				MESAVERDE	7,336

35. ADDITIONAL REMARKS (Include plugging procedure)

The first 203' of the surface hole was drilled with a 12 1/4" bit. The remainder of surface hole was drilled with an 11" bit. A top down cement job using 760 sx cement was performed on 12/10/2012 to get cement to surface. DQX csg was run from surface to 4951'; LTC csg was run from 4951' to 9471'. 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) LAURA ABRAMS TITLE REGULATORY ANALYST
 SIGNATURE  DATE 2/22/2013

This report must be submitted within 30 days of

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

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

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

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

**US ROCKIES REGION
Operation Summary Report**

Well: MORGAN STATE 921-36F1BS RED

Spud Date: 6/7/2012

Project: UTAH-UINTAH

Site: MORGAN STATE 921-36F2 PAD

Rig Name No: H&P 318/318, CAPSTAR 310/310

Event: DRILLING

Start Date: 5/23/2012

End Date: 8/31/2012

Active Datum: RKB @5,018.00usft (above Mean Sea Level)

UWI: SE/NW/0/9/S/21/E/36/0/0/26/PM/N/1512/W/0/1807/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
6/6/2012	0:00 - 6:00	6.00	RDMO	21	E	P		RIG DOWN. WAIT ON TRUCKING
	6:00 - 11:00	5.00	MIRU	01	B	P		MOVE RIG TO MORGAN STATE 921 36F1BS, WELL 1 OF 4. START RIG UP
	11:00 - 0:00	13.00	MIRU	01	B	P		CHANG OUT RIG SWMVEL. CONTINUE RIG UP OF CLOSED LOOP SYSTEM
6/7/2012	0:00 - 4:00	4.00	MIRU	01	G	P		RIG UP OF CLOSED LOOP SYSTEM
	4:00 - 8:00	4.00	MIRU	21	E	P		WAITING ON PROPER CAM LOCKS, HOSE FITTINGS AND HOSES FROM NOV. ALSO WAITING ON WATER. WATER SERVICE TRUCK BROKE DOWN LAST NIGHT, WAS NOT ABLE TO COMPLETE RUN PICK UP 12.25" BHA, AIR OUR PUMPS
	8:00 - 9:30	1.50	PRPSPD	01	B	P		DRILL 12.25" SURFACE HOLE F/ 49'- 203'
	9:30 - 13:00	3.50	DRLSUR	02	D	P		ROP= 161' @ 81 FPH WOB= 14/22K RPM= 55/105 SPP=800/500 GPM= 595 TRQ= 2600/1900 PU/SO/ROT = 49/46/47 NO LOSSES HOLE IN GOOD SHAPE
	13:00 - 13:30	0.50	DRLSUR	06	A	P		TRIP OUT OF HOLE, LAY DOWN 12.25" BIT
	13:30 - 15:30	2.00	DRLSUR	08	A	S		REPLACE FLOOR LIFY CYLINDER, REPAIR AND WORK ON FLOOR
	15:30 - 16:30	1.00	DRLSUR	06	A	P		PICK UP 11" BIT, DIRECTIONAL TOOLS, SCRIBE & TRIP IN HOLE
	16:30 - 21:30	5.00	DRLSUR	02	D	P		DRILL 11.00" FROM/ 203'-561'
	21:30 - 22:30	1.00	DRLSUR	21	E	Z		ROP= 161' @ 81 FPH WOB= 14/22K RPM= 55/105 SPP=800/500 GPM= 595 TRQ= 2600/1900 PU/SO/ROT = 49/46/47 NO LOSSES HOLE IN GOOD SHAPE
	22:30 - 0:00	1.50	DRLSUR	02	D	P		WAITING ON NOV TO CLEAN PIT, HAVING PROBLEMS WITH THEIR SHAKERS AND PIT SYSTEM DRILL 11.00" FROM/ 561'-750'
								ROP= @ 81 FPH WOB= 14/22K RPM= 55/105 SPP=990/740 GPM= 595 TRQ= 2800/1900 PU/SO/ROT = 59/52/56 NO LOSSES HOLE IN GOOD SHAPE

**US ROCKIES REGION
Operation Summary Report**

Well: MORGAN STATE 921-36F1BS RED

Spud Date: 6/7/2012

Project: UTAH-UIINTAH

Site: MORGAN STATE 921-36F2 PAD

Rig Name No: H&P 318/318, CAPSTAR 310/310

Event: DRILLING

Start Date: 5/23/2012

End Date: 8/31/2012

Active Datum: RKB @5,018.00usft (above Mean Sea Level)

UWI: SE/NW/0/9/S/21/E/36/0/0/26/PM/N/1512/W/0/1807/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
6/8/2012	0:00 - 11:30	11.50	DRLSUR	02	D	P		DRILL 11.00" FROM/ 750'- 1506" ROP= @ 81 FPH WOB= 14/22K RPM= 55/105 SPP=990/740 GPM= 595 TRQ= 2800/1900 PU/SO/ROT = 59/52/56 NO LOSSES HOLE IN GOOD SHAPE
	11:30 - 13:00	1.50	DRLSUR	22	O	Z		STOP OPERATIONS. PULL OFF BOTTOM. EVAC CREW TO MUSTER POINT. JD SERVICES RIG UP, SAFETY MEET. RECOVER DOWN EQUIPMENT. RESUME OPERATIONS.
	13:00 - 15:30	2.50	DRLSUR	02	D	P		DRILL 11.00" FROM/ 1506"-1602' ROP= @ 81 FPH WOB= 14/22K RPM= 55/105 SPP=1050/840 GPM= 595 TRQ= 2800/1900 PU/SO/ROT = 75/50/65 NO LOSSES HOLE IN GOOD SHAPE
	15:30 - 18:00	2.50	DRLSUR	22	L	Z		PUMP FAILURE. NOV MAIN PUMP TO CATCH PIT DOWN. WILL NEED REPLACING. PROBLEMS WITH NOV EQUIPMENT. PULL OFF BOTTOM AND WAIT FOR REPAIRS
	18:00 - 22:00	4.00	DRLSUR	06	K	S		TRIP OUT OF HOLE TO 1390', SLOW PUMPS, ROTATE. BYPASS NOV PUMP, INSTALL YELLOW DOG PUMP IN ITS PLACE
	22:00 - 0:00	2.00	DRLSUR	06	F	S		TRIP IN HOLE TO RESUME DRILLING
6/9/2012	0:00 - 2:00	2.00	DRLSUR	02	D	P		DRILL 11.00" FROM/ 1602'-1822' ROP= @ 81 FPH WOB= 14/22K RPM= 55/105 SPP=1050/840 GPM= 595 TRQ= 2800/1900 PU/SO/ROT = 75/50/65 NO LOSSES HOLE IN GOOD SHAPE
	2:00 - 3:00	1.00	DRLSUR	22	L	Z		SHAKERS DOWN, REPAIRING
	3:00 - 5:00	2.00	DRLSUR	02	D	P		DRILL 11.00" FROM/ 1822'-1915' ROP= @ 81 FPH WOB= 14/22K RPM= 55/105 SPP=1050/840 GPM= 595 TRQ= 3000/1900 PU/SO/ROT = 95/80/85 NO LOSSES HOLE IN GOOD SHAPE

US ROCKIES REGION
Operation Summary Report

Well: MORGAN STATE 921-36F1BS RED		Spud Date: 6/7/2012	
Project: UTAH-UINTAH		Site: MORGAN STATE 921-36F2 PAD	Rig Name No: H&P 318/318, CAPSTAR 310/310
Event: DRILLING		Start Date: 5/23/2012	End Date: 8/31/2012
Active Datum: RKB @5,018.00usft (above Mean Sea Level)		UWI: SE/NW09/S/21/E/36/0/0/26/PM/N/1512/W/0/1807/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	5:00 - 7:30	2.50	DRLSUR	22	L	Z		STOP OPERATIONS, NOV PUMP NOT HANDLING RETURNS, BY PASS RETURNS TO EMPTY FRACS, RESERVE PIT
	7:30 - 15:30	8.00	DRLSUR	02	D	P		DRILL 11.00" FROM/ 1915'-2379' ROP= @ 91 FPH WOB= 14/22K RPM= 55/105 SPP=1050/840 GPM= 595 TRQ= 3200/1900 PU/SO/ROT = 115/95/103 NO LOSSES HOLE IN GOOD SHAPE
	15:30 - 18:30	3.00	DRLSUR	22	L	Z		NOV GENERATOR DOWN. TRIP OUT, LAY DOWN 5 JOINTS. WAITING ON REPLACEMENT GENERATOR
	18:30 - 19:00	0.50	DRLSUR	06	K	P		TRIP IN HOLE
	19:00 - 23:00	4.00	DRLSUR	02	D	P		DRILL 11.00" FROM/ 2379'- 2675' ROP= @ 101 FPH WOB= 14/22K RPM= 55/105 SPP=1050/740 GPM= 595 TRQ= 3200/1900 PU/SO/ROT = 115/95/103 NO LOSSES HOLE IN GOOD SHAPE
	23:00 - 0:00	1.00	DRLSUR	05	C	P		CIRCULATE PRIOR TO TRIP
6/10/2012	0:00 - 5:00	5.00	DRLSUR	06	D	P		PULLOUT OF HOLE, FLOW CHECK EVERY 200'. LAY DOWN BIT AND DIRECTIONAL TOOLS
	5:00 - 9:00	4.00	DRLSUR	12	C	P		PJSM /// RUN 60 JT'S, 8-5/8", 28#, J-55, LT&C CSG /// SHOE SET @ 2633' /// BAFFLE @ 2587'
	9:00 - 12:00	3.00	DRLSUR	12	C	P		PJSM WITH PRO PETRO CMT CREW /// PUMP 40 BBL'S WATER AHEAD FOLLOWED BY 20 BBL GEL WATER FLUSH /// LEAD = 250sx CLASS G CMT @ 11.0 WT & 3.82 YIELD /// TAIL = 200sx CLASS G CMT @ 15.8 WT & 1.15 YIELD /// DROP PLUG & DISPLACE W/ 164 BBL'S WATER /// PLUG DN @ 11:18 06/10/2012 /// BUMP PLUG W/ 600 PSI /// FINAL LIFT = 600 PSI /// CHECK FLOATS - NO CMT TO SURFACE, RUN 200' OF 1" PIPE DOWN BACKSIDE & TOP OUT W/ 200 sx CLASS G CMT & 15.8 WT & 1.15 YIELD /// NO CMT TO SURFACE
8/22/2012	15:30 - 18:00	2.50	RDMO	01	E	P		RIG RELEASED AT 1200 RIG DOWN JONES HAD 3 TRUCKS, 2 FORKLIFTS, 3 SWAMPERS SET OUT FRONT END MOVED DRILL PIPE 25% RIGED DOWN STALLION HAD 3 TRUCKS 3 SERVICE TRUCK 3 HANDS MOVED MAN CAMPS SET BACK UP
	18:00 - 0:00	6.00	RDMO	21	C	P		WAIT ON DAY LITE
8/23/2012	0:00 - 6:00	6.00	RDMO	21	C	P		WAIT ON DAY LITE

US ROCKIES REGION

Operation Summary Report

Well: MORGAN STATE 921-36F1BS RED Spud Date: 6/7/2012

Project: UTAH-UINTAH Site: MORGAN STATE 921-36F2 PAD Rig Name No: H&P 318/318, CAPSTAR 310/310

Event: DRILLING Start Date: 5/23/2012 End Date: 8/31/2012

Active Datum: RKB @5,018.00usft (above Mean Sea Level) UWI: SE/NW09/S/21/E/36/0/0/26/PM/N/1512/W/0/1807/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 20:00	14.00	RDMO	01	E	P		RIG DOWN FOR TRUCKS JONES HAD 7 TRUCKS,2 FORKLIFTS, 3 SWAMPER, 2 TRUCK PUSHER,1 FLAGER FOR HYWAY, 2 CRAINS, 4 OILER H&P HAD 17 HANDS SAFTY HAND, PUSHER, 100 % RIGED DOWN 100 % MOVED 96 % RIGED UP RELEASED TRUCK S @ 19:00 8/23/2012 1CRAIN @ 19:00 8/23/2012 SEC CRAIN @ 19:30 8 23/2012 (RIG MOVE WAS 1/2 MILE)
	20:00 - 0:00	4.00	RDMO	21	C	P		WAIT ON DAY LITE
8/24/2012	0:00 - 6:00	6.00	MIRU	21	C	P		WAIT ON DAY LITE
	6:00 - 19:00	13.00	MIRU	01	B	P		RIG UP BY HAND ,RASIED DERRICK, PIN MAST RASING CYENDERS, DRESS DERRICK RAN CABLES PINED TOP DRIVE SKID BOTTOM & TOP SUB CENTER OVER WELL
	19:00 - 22:30	3.50	PRPSPD	14	A	P		NIPPLE UP BOPS
	22:30 - 0:00	1.50	PRPSPD					NIPPLE UP SWACO ORBIT VAVLE, SWACO CHOKE LINES TIGHTEN BOLTS TO QUICK FLANGE
8/25/2012	0:00 - 7:30	7.50	DRLPRO	15	A	P		TEST BOP BLINDS , PIPE, HCR WING VAVLES , CHOKE MANFOLD, IBOP FLOOR VAVLES , 5000 PSI , LOW 250 PSI ANN 2500 PSI LOW 250 CASING 1500 PSI
	7:30 - 8:00	0.50	DRLPRO	14	A	P		INSTALL WEAR BUSHING
	8:00 - 10:30	2.50	DRLPRO	14	A			INSTALL SMITH ROTAING HEAD HAD TO MAKE 4 SET ORING FOR HEAD WRONG SIZE AGAIN ORBIT VAVLE LEAKING NO GASKIT FOT IT CALLED TALKED TO ANDRIES BISSCHOFF WITH SWACO ABOUT GETTING PARTS RIGHT O-RINGS HE SAID SMITH WAS STILL RUNNING THE HEAD SO I CALLED CHASE WITH SMITH ROTATING HEADS HE SAID HE'D GET O-RINGS API RING GASKETS FOR ORBIT VALVE
	10:30 - 11:00	0.50	DRLPRO	15	A	P		TEST SMITH, SWACO EQUIP.
	11:00 - 13:00	2.00	DRLPRO	06	A	P		P/U BHA MWD TOOLS SCRIBE IN HOLE
	13:00 - 14:30	1.50	DRLPRO	06	A	P		TIH WITH BHA
	14:30 - 15:00	0.50	DRLPRO	06	A	P		INSTALL ROTATING HEAD RUBBER
	15:00 - 16:30	1.50	DRLPRO	06	A	P		TIH WITH MWD TOOLS TAGED TOP CMT @ 2574
	16:30 - 17:00	0.50	DRLPRO	07	A	P		RIG SER
	17:00 - 18:30	1.50	DRLPRO	02	F	P		DRILL CMT FLOAT EQUIP. SHOE TRACK
	18:30 - 20:00	1.50	DRLPRO	02	D	P		DRILL SLID F/ 2700 TO 2917 217' ROP 144.66 WT 19 RPM 50 TO 55 PUMP ON / OFF 1800 /1400 PUMP SPM 120 GPM 540 TORQUE ON / OFF 7 / 3 MUD WT 8.6 VIS 26 SLID 103 1 HRS, 40 MINS.
	20:00 - 21:00	1.00	DRLPRO	22	L	Z		MWD TOOLS QUIT WORKING HAD TO RERUN WIRES WORKING GOOD NOW

**US ROCKIES REGION
Operation Summary Report**

Well: MORGAN STATE 921-36F1BS RED		Spud Date: 6/7/2012	
Project: UTAH-UINTAH		Site: MORGAN STATE 921-36F2 PAD	Rig Name No: H&P 318/318, CAPSTAR 310/310
Event: DRILLING		Start Date: 5/23/2012	End Date: 8/31/2012
Active Datum: RKB @5,018.00usft (above Mean Sea Level)		UWI: SE/NW09/S/21/E/36/0/0/26/PM/N/1512/W/0/1807/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	21:00 - 0:00	3.00	DRLPRO	02	D	P		DRILL SLID F/ 2917 TO 3389 472' ROP 157.3 WT 19 RPM 50 TO 55 PUMP ON / OFF 1800 /1400 PUMP SPM 120 GPM 540 TORQUE ON / OFF 7 / 3 MUD WT 8.6 VIS 26 SLID 103 1 HRS, 40 MINS.
8/26/2012	0:00 - 16:30	16.50	DRLPRO	02	D	P		DRILL,SLID F/ 3389 TO 5846 FT 2457' ROP148.9 WOB 20 RPM T D - 60 MM - RPM - 152 PUMP PSI ON / OFF 1870 /1400 PUMP SPM 60 / 60 GPM 540 TRQ ON / OFF 7 / 3 NOV - DEWATERING SWACO - OFF LINE SLID 88' HRS 1 MINS 30 ROP 58.6 RIG SER.
	16:30 - 17:00	0.50	DRLPRO	07	A			
	17:00 - 0:00	7.00	DRLPRO	02	D			DRILL,SLID F/ 5846 TO 6664 FT 818 ' ROP116.85 WOB 23-25 RPM T D - 44-50 MM - RPM - 138 PUMP PSI ON / OFF 1940 / 1530 PUMP SPM 55 / 55 GPM 495 TRQ ON / OFF 7 / 3 NOV - DEWATERING SWACO - OFF LINE SLID X HRS X MINS X ROP X FLUID LOST @ 5619 120 BBLs HELD BOP DRILL 3 MIN 10 SEC ALL MEMBER AT STATIONS
8/27/2012	0:00 - 17:00	17.00	DRLPRO	02	D	P		DRILL,SLID F/ 6664 TO 8111 FT 1447 ' ROP 85.11 WOB 23-25 RPM T D - 44-50 MM - RPM - 138 PUMP PSI ON / OFF 1940 / 1530 PUMP SPM 55 / 55 GPM 495 TRQ ON / OFF 7 / 3 NOV - DEWATERING SWACO - OFF LINE SLID 39' HRS 1 MINS 50 ROP P/U 213 S/O 151 R/T 180 RIG SER.
	17:00 - 17:30	0.50	DRLPRO	07	D	P		
	17:30 - 0:00	6.50	DRLPRO	02	A	P		RIG SERDRILL,SLID F/ 8111 TO 8620 FT 509 ' ROP 72.7 WOB 23-25 RPM T D - 44-50 MM - RPM - 138 PUMP PSI ON / OFF 1940 / 1530 PUMP SPM 109 GPM 495 TRQ ON / OFF 12 / 9 NOV - DEWATERING SWACO - OFF LINE SLID ' HRS X MINS X ROP

US ROCKIES REGION
Operation Summary Report

Well: MORGAN STATE 921-36F1BS RED		Spud Date: 6/7/2012	
Project: UTAH-UINTAH		Site: MORGAN STATE 921-36F2 PAD	Rig Name No: H&P 318/318, CAPSTAR 310/310
Event: DRILLING		Start Date: 5/23/2012	End Date: 8/31/2012
Active Datum: RKB @5,018.00usft (above Mean Sea Level)		UWI: SE/NW0/9/S/21/E/36/0/0/26/PM/N/1512/W/0/1807/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
8/28/2012	0:00 - 11:00	11.00	DRLPRO	02	D	P		DRILL,SLID F/ 8620 TO 9511 FT 891 ' ROP 81.0 TD WELL WOB 23-25 RPM T D - 44-50 MM - RPM - 138 MUD WT 8.7 VIS 26 PUMP PSI ON / OFF 1940 / 1530 PUMP SPM 109 GPM 495 TRQ ON / OFF 12 / 9 NOV - DEWATERING SWACO - OFF LINE SLID ' HRS X MINS X ROP FLARE 25-30'
	11:00 - 19:30	8.50	DRLPRO	05	G	P		CIRC DISPLACE DIRTY WATER WITH 12.1 MUD MUD TRANSFERD OUT UPRIGHT WAS ONLY 10.8 NOT 12.1 BROUGHT MUD WT UP TO 12.1 VIS 48 WIPER TRIP FOR LOGS
8/29/2012	19:30 - 0:00	4.50	DRLPRO	06	E	P		TRIP OUT HOLE
	0:00 - 0:30	0.50	DRLPRV	06	E	P		LAY DOWN MWD TOOLS, MM, BIT
	0:30 - 1:30	1.00	DRLPRV	06	E	P		TRIP IN HOLE FOR WIPER TRIP FOR LOGS
	1:30 - 7:00	5.50	DRLPRV	06	A	P		CIRCULATE & CONDITION F/ LOGS, BUILD VOLUME , RAISE MUD WT TO 12.2, VIS 47
	7:00 - 11:30	4.50	DRLPRV	05	C	P		TRIP OUT OF HOLE F/ LOGS , NO PROBLEMS
	11:30 - 16:30	5.00	DRLPRV	06	A	P		SAFETY MEETING W/ BAKER ATLAS, RIG UP LOGGERS, RUN TRIPLE COMBO LOGS ,BRIDGED OUT @ 7470', LOG OUT, RIG DOWN LOGGERS, (LOGGERS LEFT HOLE FINDER & SPRING CENTRALIZER IN THE HOLE)
8/30/2012	16:30 - 22:00	5.50	EVALPR	11	C	X		*** 2ND WIPER TRIP *** TRIP IN HOLE W/ R/R TRICONE BIT & BIT SUB @ 4250'
	22:00 - 0:00	2.00	EVALPR	06	E	X		*** 2ND WIPER TRIP/ LOG FAILURE*** TRIP IN HOLE F/ 4250' TO 9511'
	0:00 - 3:00	3.00	EVALPR	06	E	X		*** LOG FAILURE*** CIRCULATE & CONDITION F/ LOGS
	3:00 - 6:30	3.50	EVALPR	05	C	X		***TRIP OUT OF HOLE F/ LOGS
	6:30 - 11:00	4.50	EVALPR	06	E	X		*** 2ND LOG ATTEMPT *** SAFETY MEETING W/ BAKER ATLAS, RIG UP LOGGERS, RUN TRIPLE COMBO LOGS TO
	11:00 - 15:00	4.00	EVALPR	11	G	X		PULL BEARING PACK, INSTALL CASING SPOOL, PULL WEAR BUSHING
	15:00 - 16:30	1.50	CSGPRO	14	B	P		SAFETY MEETING W/ KIMZEY & RIG UP CASERS
	16:30 - 17:00	0.50	CSGPRO	12	A	P		RUN 215 JTS 4.5, 11.6, I80 PRODUCTION CASING (103 JTS LT&C 112 JTS DQX) SHOE 9471', TOP OF FLOAT 9424', TOP OF MARKER 7243' TOP OF X/O 4930'
	17:00 - 0:00	7.00	CSGPRO	12	C	P		PICKUP HANGER & LAND 215 JTS 4.5, 11.6, I80 PRODUCTION CASING (103 JTS LT&C 112 JTS DQX) SHOE 9471', TOP OF FLOAT 9424', TOP OF MARKER 7243' TOP OF X/O 4930"
	0:00 - 0:30	0.50	CSGPRO	12	C	P		CIRCULATE 2 BOTTOMS UP, NO LOSSES
8/31/2012	0:30 - 2:30	2.00	CSGPRO	05	D	P		SAFETY MEETING W/ BJ SERVICES , RIG UP CEMENTERS
	2:30 - 3:00	0.50	CSGPRO	12	B	P		

US ROCKIES REGION
Operation Summary Report

Well: MORGAN STATE 921-36F1BS RED Spud Date: 6/7/2012

Project: UTAH-UINTAH Site: MORGAN STATE 921-36F2 PAD Rig Name No: H&P 318/318, CAPSTAR 310/310

Event: DRILLING Start Date: 5/23/2012 End Date: 8/31/2012

Active Datum: RKB @5,018.00usft (above Mean Sea Level) UWI: SE/NW/0/9/S/21/E/36/0/0/26/PM/N/1512/W/0/1807/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	3:00 - 7:00	4.00	CSGPRO	12	E	P		CEMENT PROD CASING, PRESSURE TEST TO 5400 PSI, DROP BOTTOM PLUG, PUMP 25 BBLS SPACER, 714 SX, PREMIUM LITE II CEMENT + 5 LBS/SACK KOL-SEAL, 50 LB BAG + 0.3% BWOC FL-52 + 0.4% BWOC SODIUM METASILICATE + 6% BWOC BENTONITE II + 0.05LBS/SACK STATIC FREE + 0.6% BWOC R-3 + 0.25 LBS/SACK CELLO FLAKE + 84.9% FRESH WATER, 13#, 1.77 YLD, LEAD, 1815 SACKS (50:50) POZ (FLY ASH): CLASS G CEMENT + 0.05 LBS/SACK STATIC FREE + 10% BWOW SODIUM CHLORIDE + 0.2% BWOC R-3 + 0.5% BWOC EC-1 + 0.002 GPS FP-6L + 2% BWOC BENTONITE II + 58.9% FRESH WATER 14.3#, 1.32 YLD TAIL, SHUT DOWN WASH UP, DROP TOP PLUG, DISPLACE W/ 146.5 BBLS CLAY CARE + 1 GAL MAGNACIDE @ 8.34 PPG, FINAL LIFT 2960 PSI, BUMP PLUG @ 3560 PSI, ONLY HAD RETURNS FOR A BRIEF PERIOD ABOUT HALF WAY THROUGH TAIL, NO CEMENT BACK TO PIT, TOP OF TAIL EST 3900'
	7:00 - 8:00	1.00	CSGPRO	12	B	P		RIG DOWN CEMENTERS, FLUSH OUT STACK, ORBIT VALVE, SWACO EQUIPMENT
	8:00 - 9:00	1.00	CSGPRO	14	B	P		SET PACK OFF & LAY DOWN LANDING JOINT
	9:00 - 10:00	1.00	CSGPRO	14	A	P		NIPPLE DOWN BOP & EQUIPMENT, RELEASE RIG @ 10:00 8/31/2012 TO MORGAN STATE 921-36G1BS, PREP RIG F/ SKID

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	MORGAN STATE 921-36F1BS RED	Wellbore No.	OH
Well Name	MORGAN STATE 921-36F1BS	Wellbore Name	MORGAN STATE 921-36F1BS
Report No.	1	Report Date	12/5/2012
Project	UTAH-UINTAH	Site	MORGAN STATE 921-36F2 PAD
Rig Name/No.		Event	COMPLETION
Start Date	12/5/2012	End Date	1/23/2013
Spud Date	6/7/2012	Active Datum	RKB @5,018.00usft (above Mean Sea Level)
UWI	SE/NW/0/9/S/21/E/36/0/0/26/PM/N/1512/W/0/1807/0/0		

1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly		Conveyed Method			

1.4 Initial Conditions

Fluid Type		Fluid Density	
Surface Press		Estimate Res Press	
TVD Fluid Top		Fluid Head	
Hydrostatic Press		Press Difference	
Balance Cond	NEUTRAL		

1.5 Summary

Gross Interval	6,121.0 (usft)-9,318.0 (usft)	Start Date/Time	1/4/2013 12:00AM
No. of Intervals	72	End Date/Time	1/4/2013 12:00AM
Total Shots	264	Net Perforation Interval	86.00 (usft)
Avg Shot Density	3.07 (shot/ft)	Final Surface Pressure	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter r (in)	Carr Type /Stage No.	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
1/4/2013 12:00AM	WASATCH/			6,121.0	6,125.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

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	Misrurt
1/4/2013 12:00AM	WASATCH/			6,206.0	6,208.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			6,306.0	6,307.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			6,401.0	6,403.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			6,470.0	6,471.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			6,485.0	6,486.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			6,502.0	6,504.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			6,628.0	6,630.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			6,694.0	6,695.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			6,721.0	6,723.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			6,785.0	6,787.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			6,885.0	6,886.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			6,967.0	6,968.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			6,987.0	6,988.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			6,994.0	6,995.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			7,015.0	7,016.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			7,046.0	7,047.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			7,091.0	7,092.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			7,247.0	7,248.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	WASATCH/			7,289.0	7,290.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,355.0	7,356.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,375.0	7,376.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

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
1/4/2013 12:00AM	MESAVERDE/			7,384.0	7,385.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,400.0	7,401.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,419.0	7,420.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,446.0	7,447.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,475.0	7,476.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,497.0	7,498.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,515.0	7,516.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,532.0	7,533.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,552.0	7,553.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,604.0	7,605.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,645.0	7,646.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,679.0	7,680.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,729.0	7,730.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,747.0	7,748.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,804.0	7,805.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,869.0	7,870.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			7,883.0	7,884.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,087.0	8,088.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,117.0	8,119.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,210.0	8,212.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,274.0	8,276.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

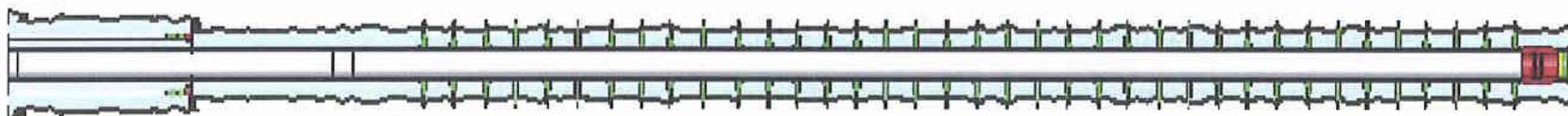
Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
1/4/2013 12:00AM	MESAVERDE/			8,325.0	8,326.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,349.0	8,350.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,366.0	8,367.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,395.0	8,396.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,414.0	8,415.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,489.0	8,490.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,507.0	8,508.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,518.0	8,519.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,564.0	8,565.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,584.0	8,585.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,622.0	8,623.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,641.0	8,642.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,671.0	8,672.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,706.0	8,707.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,740.0	8,741.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,800.0	8,801.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,830.0	8,831.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,845.0	8,846.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,871.0	8,872.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,907.0	8,908.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			8,956.0	8,957.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

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
1/4/2013 12:00AM	MESAVERDE/			8,991.0	8,992.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			9,017.0	9,018.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			9,035.0	9,036.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			9,139.0	9,140.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			9,193.0	9,194.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			9,218.0	9,219.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			9,233.0	9,235.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/4/2013 12:00AM	MESAVERDE/			9,316.0	9,318.0	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 921-36F1BS RED		Spud Date: 6/7/2012	
Project: UTAH-UINTAH		Site: MORGAN STATE 921-36F2 PAD	Rig Name No: MILES 2/2
Event: COMPLETION		Start Date: 12/5/2012	End Date: 1/23/2013
Active Datum: RKB @5,018.00usft (above Mean Sea Level)		UWI: SE/NW/0/9/S/21/E/36/0/0/26/PM/N/1512/W/0/1807/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
6/7/2012	-							
12/5/2012	8:00 - 9:30	1.50	FRAC	33	C	P		RU HOT OILER, FILLED SURFACE WITH 8 BBLS H2O, PRESSURED TO 1000 PSI, BROKE BACK TO 800 PSI, PUMPED 10 BBLS @ 1-2 BPM 800 PSI ISIP 800 PSI, BLED WELL DOWN SWIFN
12/6/2012	-							
12/10/2012	14:00 - 17:00	3.00	FRAC	51	B	P		RU SCHLUMBERGER, ESTABLISH INJECTION RATE 3 BPM 925 PSI PUMPED 10 BBLS FRESH WATER PUMPED 20 BBLS CALCIUM WATER PUMPED 10 BBLS FRESH WATER PUMPED 20 BBLS ZONELOCK PUMPED 10 BBLS FRESH WATER MIXED AND PUMPED 760 SKS THIXOTROPIC CLASS G CEMENT 261 BBLS SLURY @ 12.5 PPG @ AVG RATE 3.9 BPM 475 PSI FLUSHED WITH 3 BBLS FRESH WATER FINAL PSI 369 PSI SHUT WELL IN TOTAL FLUID PUMPED 331 BBLS THE REASON WE PUMPED SO MUCH CEMENT WAS THAT WE COULDN'T PUMP INTO THE MORGAN STATES 921-36H4BS AND WE HAD TO BUY THE CEMENT
12/13/2012	11:30 - 14:00	2.50	FRAC	41	A	P		RU WL RAN CBL FROM 3675' TO SURFACE, GOOD BOND FROM 3675 TO SURFACE, RD WL
1/8/2013	7:00 - 8:00	1.00	FRAC	33	C	P		FILL SURFACE CSG. MIRU CAMERON QUICK TEST. 1ST PSI TEST T/ 7000 PSI. HELD FOR 15 MIN LOST 39 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI. MOVE T/ NEXT WELL.SWIFN
1/14/2013	7:00 - 13:00	6.00	FRAC	37	B	P		HSM, RIGGING UP, MIRU CASED HOLE SOLUTIONS, PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW
1/15/2013	6:30 - 6:45	0.25	FRAC	48	B	P		HSM, REVIEW FRAC DESIGN, AND COLD WEATHER [-21 DEEGREE]

**US ROCKIES REGION
Operation Summary Report**

Well: MORGAN STATE 921-36F1BS RED		Spud Date: 6/7/2012	
Project: UTAH-UINTAH	Site: MORGAN STATE 921-36F2 PAD	Rig Name No: MILES 2/2	
Event: COMPLETION	Start Date: 12/5/2012	End Date: 1/23/2013	
Active Datum: RKB @5,018.00usft (above Mean Sea Level)		UWI: SE/NW/0/9/S/21/E/36/0/0/26/PM/N/1512/W/0/1807/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:45 - 18:30	11.75	FRAC	36	B	P		<p>PERF & FRAC FOLLOWING WELL AS PER DESIGN W/ 30/50 MESH SAND & SLK WTR. ALL CBP'S ARE HALIBURTON 8K CBP'S. REFER TO STIM PJR FOR FLUID, SAND AND CHEMICAL VOLUME PUM'D</p> <p>FRAC STG #1] WHP=220#, BRK DN PERFS=4,687#, @=5.0 BPM, INJ RT=50, INJ PSI=5,099#, INITIAL ISIP=2,941#, INITIAL FG=.76, FINAL ISIP=2,940#, FINAL FG=.76, AVERAGE RATE=49.8, AVERAGE PRESSURE=5,112#, MAX RATE=50.3, MAX PRESSURE=5,837#, NET PRESSURE INCREASE=29#, 21/21 100% CALC PERFS OPEN. X OVER TO WIRE LINE</p>
	18:30 - 23:59	5.48	FRAC	34		S		<p>PERF STG #2] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, [GUN GOT PUMPED OFF LINE LOSING IT IN WELL, REFLUSHED WELL, P/U GAUGE RING, RIH TAGGED TOP OF GUN @=9,354]</p>
1/16/2013	0:00 - 7:00	7.00	FRAC	34		S		<p>WAIT ON CUTTERS WIRE LINE BRADED TRUCK TO TRY TO FISH GUN, MIRU, P/U TOOLS TO FISH GUN, EQUALIZED WELL AND FROZE LUBE HAD TO LAY DOWN AND THAW, STARTED OVER RIH W/ BRADED LINE TRUCK W/ OVER SHOT, TAGGED FISH TOP @=9345' SET JARS OFF ONE TIME PULLED GUN FREE POOH, LAID DOWN GUN, RIGGED DOWN CUTTERS, MIRU CASED HOLE HOLE TO START FRAC.</p>

**US ROCKIES REGION
Operation Summary Report**

Well: MORGAN STATE 921-36F1BS RED

Spud Date: 6/7/2012

Project: UTAH-UINTAH

Site: MORGAN STATE 921-36F2 PAD

Rig Name No: MILES 2/2

Event: COMPLETION

Start Date: 12/5/2012

End Date: 1/23/2013

Active Datum: RKB @5,018.00usft (above Mean Sea Level)

UWI: SE/NW/0/9/S/21/E/36/0/0/26/PM/N/1512/W/0/1807/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:00 - 17:30	10.50	FRAC	36	B	P		<p>PERF STG #2] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @= 9066', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #2] WHP= 1265#, BRK DN PERFS= 3389#, @= 3.9 BPM, INJ RT= 51.5 BPM,, INJ PSI= 4989#, INITIAL ISIP= 2089#, INITIAL FG= 0.69, FINAL ISIP= 2782#, FINAL FG= 0.75, AVERAGE RATE= 50.9 BPM, AVERAGE PRESSURE= 4881#, MAX RATE= 53.3 BPM, MAX PRESSURE= 5970#, NET PRESSURE INCREASE= 693#, CALC 96% PERFS OPEN. (23/24), X OVER TO WIRE LINE</p> <p>PERF STG #3] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @= 8811', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #3] WHP= 2505#, BRK DN PERFS= 3879#, @= 4.1 BPM, INJ RT= 53.6 BPM, INJ PSI= 4696#, INITIAL ISIP= 2200#, INITIAL FG= 0.69, FINAL ISIP= 2575#, FINAL FG= 0.74, AVERAGE RATE= 52.8 BPM, AVERAGE PRESSURE= 4646#, MAX RATE= 54.7 BPM, MAX PRESSURE= 5618#, NET PRESSURE INCREASE= 376#, CALC 100% PERFS OPEN. (24/24 HOLES), X OVER TO WIRE LINE</p> <p>PERF STG #4] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @= 8549', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW, SVMDFN JSA-SAFETY MEETING, COLD WEATHER WORKING</p>
1/17/2013	6:30 - 7:00	0.50	FRAC	36	B	P		

**US ROCKIES REGION
Operation Summary Report**

Well: MORGAN STATE 921-36F1BS RED

Spud Date: 6/7/2012

Project: UTAH-UINTAH

Site: MORGAN STATE 921-36F2 PAD

Rig Name No: MILES 2/2

Event: COMPLETION

Start Date: 12/5/2012

End Date: 1/23/2013

Active Datum: RKB @5,018.00usft (above Mean Sea Level)

UWM: SE/NW/0/9/S/21/E/36/0/0/26/PM/N/1512/W/0/1807/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:00 - 17:30	10.50	FRAC	36	B	P		<p>FRAC STG #4] WHP= 1880#, BRK DN PERFS= 2653#, @= 4.3 BPM, INJ RT= 51.5 BPM, INJ PSI= 4254#, INITIAL ISIP= 2052#, INITIAL FG= 0.68, FINAL ISIP= 2540#, FINAL FG= 0.74, AVERAGE RATE= 50.8, AVERAGE PRESSURE= 4357#, MAX RATE= 51.9, MAX PRESSURE= 4970#, NET PRESSURE INCREASE= 488#, CALC 100% PERFS OPEN. (24/24 HOLES) X OVER TO WIRE LINE</p> <p>PERF STG #5] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @= 8306', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #5] WHP= 1945#, BRK DN PERFS= 3522#, @= 3.8 BPM, INJ RT= 51.6 BPM, INJ PSI= 5016#, INITIAL ISIP= 1879#, INITIAL FG= 0.67, FINAL ISIP= 2627#, FINAL FG= 0.67, AVERAGE RATE= 50.9, AVERAGE PRESSURE= 4737#, MAX RATE= 51.9 BPM, MAX PRESSURE= 5647#, NET PRESSURE INCREASE= 748#, CALC 95% PERFS OPEN. (20/21 HOLES) X OVER TO WIRE LINE</p> <p>PERF STG #6] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @= 7914', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #6] WHP= 653#, BRK DN PERFS= 2411#, @= 3.8 BPM, INJ RT= 49.1 BPM, INJ PSI= 5327#, INITIAL ISIP= 1877#, INITIAL FG= 0.68, FINAL ISIP= 2487#, FINAL FG= 0.76, AVERAGE RATE= 48.6 BPM, AVERAGE PRESSURE= 4680#, MAX RATE= 49.4 BPM, MAX PRESSURE= 5484#, NET PRESSURE INCREASE= 610#, CALC 81% PERFS OPEN. (17/21 HOLES), X OVER TO WIRE LINE</p> <p>PERF STG #7] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @= 7635', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN</p> <p>FRAC STG #7] WHP= 1505#, BRK DN PERFS= 2512#, @= 4.2 BPM, INJ RT= 50.8 BPM, INJ PSI= 3909#, INITIAL ISIP= 1695#, INITIAL FG= 0.66, FINAL ISIP= 2095#, FINAL FG= 0.72, AVERAGE RATE= 50.2 BPM, AVERAGE PRESSURE= 3940#, MAX RATE= 50.9, MAX</p>

US ROCKIES REGION

Operation Summary Report

Well: MORGAN STATE 921-36F1BS RED Spud Date: 6/7/2012

Project: UTAH-UINTAH Site: MORGAN STATE 921-36F2 PAD Rig Name No: MILES 2/2

Event: COMPLETION Start Date: 12/5/2012 End Date: 1/23/2013

Active Datum: RKB @5,018.00usft (above Mean Sea Level) UWM: SE/NW/0/9/S/21/E/36/0/0/26/PM/N/1512/W/0/1807/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
1/18/2013	6:30 - 7:00	0.50	FRAC	48		P		<p>PRESSURE= 5599#, NET PRESSURE INCREASE= 400#, CALC 100% PERFS OPEN. (21/21 HOLES) X OVER TO WRE LINE</p> <p>PERF STG #8] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @= 7430', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #8] WHP= 1550#, BRK DN PERFS= 2146#, @= 4.6 BPM, INJ RT= 52.2, INJ PSI= 3714#, INITIAL ISIP= 1655#, INITIAL FG= 0.66, FINAL ISIP = 2126#, FINAL FG= 0.73, AVERAGE RATE= 51.6 BPM, AVERAGE PRESSURE= 3726#, MAX RATE= 52.4, MAX PRESSURE= 4992#, NET PRESSURE INCREASE= 471#, CALC 100% PERFS OPEN. (21/21 HOLES), SHUT WELL IN SDFN, JSA-SAFETY MEETING</p>

US ROCKIES REGION
Operation Summary Report

Well: MORGAN STATE 921-36F1BS RED		Spud Date: 6/7/2012	
Project: UTAH-UINTAH		Site: MORGAN STATE 921-36F2 PAD	Rig Name No: MILES 2/2
Event: COMPLETION		Start Date: 12/5/2012	End Date: 1/23/2013
Active Datum: RKB @5,018.00usft (above Mean Sea Level)		UWM: SE/NW/0/9/S/21/E/36/0/0/26/PM/N/1512/W/0/1807/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:00 - 17:30	10.50	FRAC	36	B	P		<p>PERF STG #9] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @= 7122', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #9] WHP= 258#, BRK DN PERFS= 2181#, @= 4.4 BPM, INJ RT= 49.9, INJ PSI= 3746#, INITIAL ISIP= 986#, INITIAL FG= 0.58, FINAL ISIP= 2404#, FINAL FG= 0.78, AVERAGE RATE= 49.3 BPM, AVERAGE PRESSURE= 3944#, MAX RATE= 49.9, MAX PRESSURE= 5119#, NET PRESSURE INCREASE= 1418#, CALC 95% PERFS OPEN. (20/21 HOLES), X OVER TO WIRE LINE</p> <p>PERF STG #10] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @= 6817', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN</p> <p>FRAC STG #10] WHP = 258#, BRK DN PERFS = 3012#, @ 4.4 BPM, INJ RT = 49.5 BPM, INT PSI = 3905#, INITAL ISIP = 1855#, INITAL FG = 0.72 , FINAL ISIP = 2011#, FINIAL FG = 0.74 , AVERAGE RATE = 49.5 BPM, AVERAGE PSI = 3821# , MAX RATE = 50.2 BPM, MAX PSI = 5053 #, NET PRESSURE INCREASE = 156 #, CALC 100% PERF OPEN, (21/21HOLES), X OVER TO WIRELINE</p> <p>PERF STG #11] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @= 6534', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #11] WHP= 450#, BRK DN PERFS= 2518#, @= 4.6 BPM, INJ RT= 49.8 BPM, INJ PSI= 3477#, INITIAL ISIP= 1799#, INITIAL FG= 0.72, FINAL ISIP= 1788#, FINAL FG= 0.72, AVERAGE RATE= 48.5 BPM, AVERAGE PRESSURE= 3005#, MAX RATE= 49.5 BPM, MAX PRESSURE= 3891#, NET PRESSURE INCREASE= - 11#, CALC 100% PERFS OPEN. (21/21 HOLES), X OVER TO WIRE LINE</p> <p>PERF STG #12] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @= 6238', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN</p> <p>FRAC STG #12] WHP = 200 #, BRK DN PERFS = 2480#, @ 4.1 BPM,</p>

**US ROCKIES REGION
Operation Summary Report**

Well: MORGAN STATE 921-36F1BS RED Spud Date: 6/7/2012
 Project: UTAH-UINTAH Site: MORGAN STATE 921-36F2 PAD Rig Name No: MILES 2/2
 Event: COMPLETION Start Date: 12/5/2012 End Date: 1/23/2013
 Active Datum: RKB @5,018.00usft (above Mean Sea Level) UWI: SE/NW/0/9/S/21/E/36/0/0/26/PM/N/1512/W/0/1807/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
								INJ RT = 47.4 BPM, INJ PSI = 3415 #, INITIAL ISIP = 1339#, INITIAL FG = 0.66 , FINAL ISIP = 1425 #, FINIAL FG = 0.67, AVERAGE RATE = 47.2 BPM, AVERAGE PSI = 2799# , MAX RATE = 47.7 BPM, MAX PSI = 4060#, NET PRESSURE INCREASE = 86 #, CALC 96% PERF OPEN, (23/24HOLES) X OVER TO WIRELINE KILL PLUG) RIH W/HALLIBURTON 8K CBP, SET CBP @6071', SWI, R/D WIRELINE AND FRAC CREW, TOTAL WATER = 14683 BBLS TOTAL SAND = 333161 # TIH TBG MIRU, NDWH, NU BOP'S, PU POBS, BIT, SN, TIH TBG, 191 JTS, 6071', TAG KILL PLUG, BREAK CIRC, PRESSURE TEST BOP'S, 3000#, PU PWR SWIVEL, MILL 7 CBP'S, 242 JTS, 7680', WINTERIZE RIG, SMFN PLUG# 1 6071' 0' SAND 5 MIN 100# KICK PLUG# 2 6238' 10' SAND 5 MIN 0# KICK PLUG# 3 6534' 20' SAND 5 MIN 200# KICK PLUG# 4 6817' 30' SAND 5 MIN 200# KICK PLUG# 5 7122' 50' SAND 5 MIN 500# KICK PLUG# 6 7436' 50' SAND 5 MIN 400# KICK PLUG# 7 7635' 30' SAND 5 MIN 200# KICK LANDING TBG PU PWR SWIVEL, MILL 5 CBP'S, C/O 40' SAND, TO PBTB, 298 JTS, 9424', POOH TO 8780.88', 277 JTS, LAND TBG, ND BOP'S, NUWH, TEST FLOW LINE, 3000#, POBS 2000#, TURN TO FBC 12:30 PM RDMO TO MS 921-36G1BS PLUG# 8 7914' 50' SAND 5 MIN 1000# KICK PLUG# 9 8306' 30' SAND 5 MIN 1100# KICK PLUG# 10 8549' 30' SAND 5 MIN 1000# KICK PLUG# 11 8811' 90 SAND 5 MIN 800# KICK PLUG# 12 9066' 30' SAND 5 MIN 800# KICK PBTB 9,424' BTM PERF 9,318' TBG 277 JTS 8753.85' KB 14.00' HANGER 4.125" .83' SN 1.875" 2.20' EOT 8780.88' FRAC WTR 14,484 BBLS RCVD 3,100 BBLS LTR 11,384 BBLS
1/22/2013	7:00 - 7:30	0.50	DRLOUT	48		P		
	7:30 - 17:00	9.50	DRLOUT	44	C	P		
1/23/2013	7:00 - 7:30	0.50	DRLOUT	48		P		
	7:30 - 17:00	9.50	DRLOUT	44	C	P		

US ROCKIES REGION

Operation Summary Report

Well: MORGAN STATE 921-36F1BS RED Spud Date: 6/7/2012

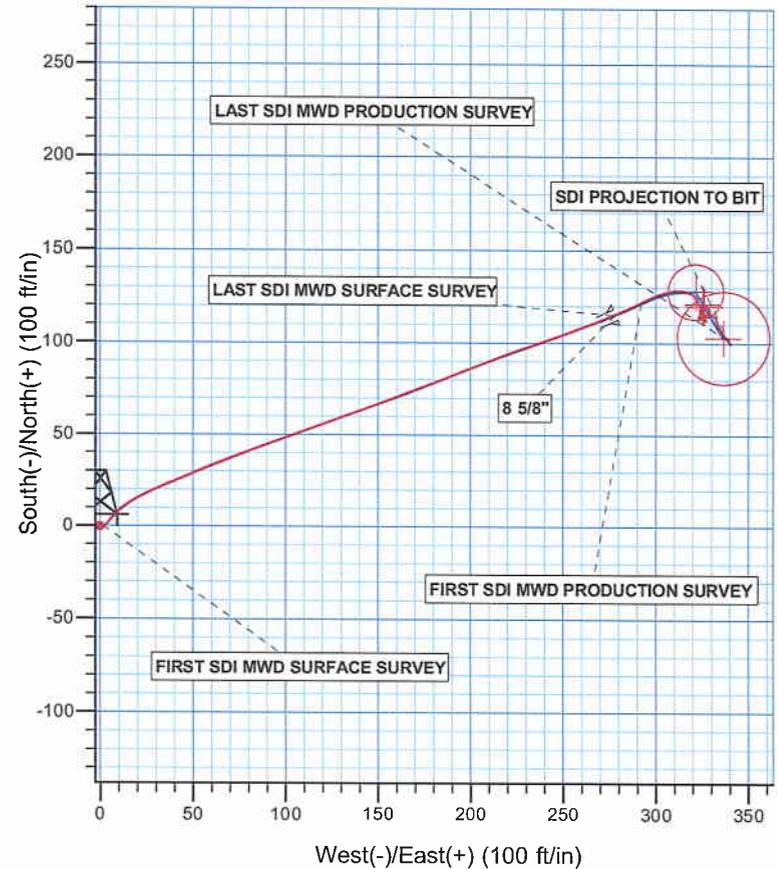
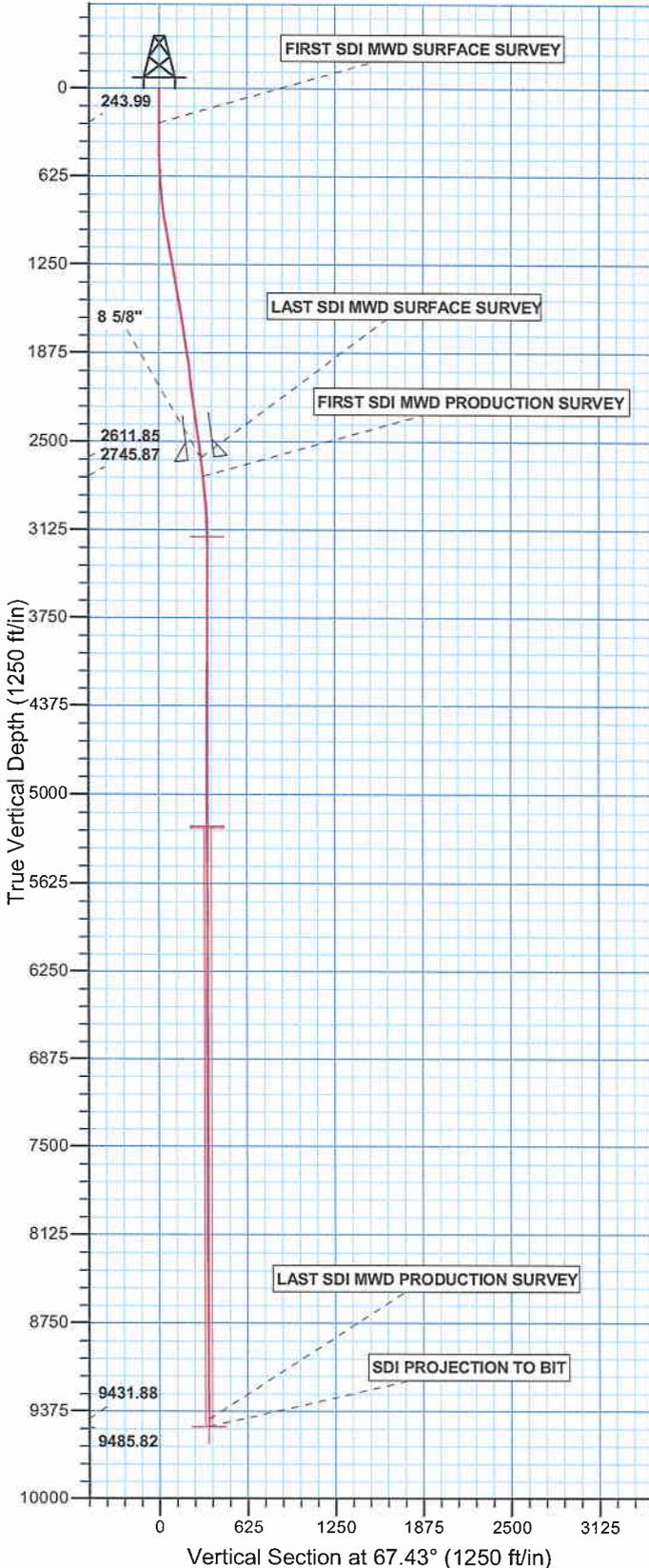
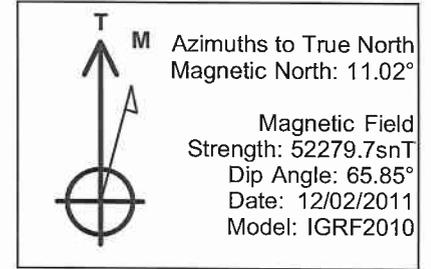
Project: UTAH-UINTAH Site: MORGAN STATE 921-36F2 PAD Rig Name No: MILES 2/2

Event: COMPLETION Start Date: 12/5/2012 End Date: 1/23/2013

Active Datum: RKB @5,018.00usft (above Mean Sea Level) UWI: SE/NW0/9/S/21/E/36/0/0/26/PM/N/1512/W/0/1807/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	17:00 - 17:00	0.00	DRLOUT	50				WELL TURNED TO SALES @ 1530 HR ON 1/23/2013. 800 MCFD, 1560 BWPDP, FCP 2300#, FTP 1900#, 20/64" CK.
1/30/2013	7:00 -			50				WELL IP'D ON 1/30/13 - 2554 MCFD, 0 BWPDP, 0 BOPD, CP 1790#, FTP 1324#, LP 124#, 24 HRS, CK 20/64

WELL DETAILS: MORGAN STATE 921-36F1BS					
GL 4994 & KB 24 @ 5018.00ft (HP 318)					
+N/-S 0.00	+E/-W 0.00	Northing 14527976.04	Easting 2059883.11	Latitude 39.995627	Longitude -109.502343



PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N
Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Zone 12N (114 W to 108 W)
Location: SECTION 36 T9S R21E
System Datum: Mean Sea Level

Design: OH (MORGAN STATE 921-36F1BS/OH)
Created By: Gabe Kendall Date: 16:04, September 05 2012



Scientific Drilling

US ROCKIES REGION PLANNING

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

MORGAN STATE 921-36F2 PAD

MORGAN STATE 921-36F1BS

OH

Design: OH

Standard Survey Report

05 September, 2012

Anadarko 
Petroleum Corporation

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well MORGAN STATE 921-36F1BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL 4994 & KB 24 @ 5018.00ft (HP 318)
Site:	MORGAN STATE 921-36F2 PAD	MD Reference:	GL 4994 & KB 24 @ 5018.00ft (HP 318)
Well:	MORGAN STATE 921-36F1BS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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 921-36F2 PAD, SECTION 36 T9S R21E				
Site Position:		Northing:	14,527,976.05 usft	Latitude:	39.995627
From:	Lat/Long	Easting:	2,059,883.10 usft	Longitude:	-109.502343
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.96 °

Well	MORGAN STATE 921-36F1BS, 1512 FNL 1807 FWL					
Well Position	+N/-S	0.00 ft	Northing:	14,527,976.05 usft	Latitude:	39.995627
	+E/-W	0.00 ft	Easting:	2,059,883.10 usft	Longitude:	-109.502343
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,994.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/02/11	11.02	65.85	52,280

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	67.43	

Survey Program	Date	09/05/12			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
15.00	2,634.00	Survey #1 SDI MWD SURFACE (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1	
2,769.00	9,511.00	Survey #2 SDI MWD PRODUCTION (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1	

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	
15.00	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	
244.00	0.70	85.92	243.99	0.10	1.40	1.33	0.31	0.31	0.00	
FIRST SDI MWD SURFACE SURVEY										
335.00	0.29	93.71	334.99	0.12	2.18	2.06	0.46	-0.45	8.56	
426.00	0.88	45.14	425.99	0.60	2.90	2.91	0.79	0.65	-53.37	
521.00	2.22	40.38	520.95	2.52	4.61	5.23	1.42	1.41	-5.01	
616.00	3.35	40.20	615.84	6.04	7.60	9.33	1.19	1.19	-0.19	
711.00	4.84	51.29	710.59	10.67	12.52	15.65	1.77	1.57	11.67	
807.00	6.24	61.23	806.14	15.71	20.25	24.73	1.76	1.46	10.35	

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: MORGAN STATE 921-36F2 PAD
Well: MORGAN STATE 921-36F1BS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well MORGAN STATE 921-36F1BS
TVD Reference: GL 4994 & KB 24 @ 5018.00ft (HP 318)
MD Reference: GL 4994 & KB 24 @ 5018.00ft (HP 318)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

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)	
901.00	7.74	65.97	899.44	20.75	30.51	36.14	1.71	1.60	5.04	
995.00	9.15	66.76	992.42	26.27	43.16	49.94	1.51	1.50	0.84	
1,088.00	9.58	67.47	1,084.18	32.16	57.10	65.07	0.48	0.46	0.76	
1,183.00	10.08	69.22	1,177.79	38.14	72.18	81.29	0.61	0.53	1.84	
1,278.00	10.46	68.52	1,271.26	44.24	87.98	98.22	0.42	0.40	-0.74	
1,371.00	10.82	70.89	1,362.67	50.19	104.08	115.37	0.61	0.39	2.55	
1,465.00	10.46	69.75	1,455.05	56.03	120.42	132.70	0.44	-0.38	-1.21	
1,562.00	9.32	69.22	1,550.61	61.87	136.03	149.35	1.18	-1.18	-0.55	
1,655.00	9.67	70.19	1,642.33	67.19	150.42	164.68	0.41	0.38	1.04	
1,751.00	8.84	69.23	1,737.08	72.54	164.90	180.11	0.88	-0.86	-1.00	
1,844.00	9.04	68.42	1,828.95	77.76	178.37	194.56	0.25	0.22	-0.87	
1,938.00	7.74	69.40	1,921.94	82.70	191.17	208.27	1.39	-1.38	1.04	
2,032.00	7.39	68.34	2,015.13	87.16	202.71	220.64	0.40	-0.37	-1.13	
2,124.00	7.39	67.73	2,106.36	91.59	213.68	232.47	0.09	0.00	-0.66	
2,216.00	7.65	71.10	2,197.57	95.81	224.95	244.50	0.56	0.28	3.66	
2,307.00	7.74	71.60	2,287.75	99.71	236.50	256.65	0.12	0.10	0.55	
2,402.00	7.91	68.26	2,381.87	104.15	248.64	269.57	0.51	0.18	-3.52	
2,493.00	7.65	70.10	2,472.03	108.53	260.15	281.88	0.40	-0.29	2.02	
2,587.00	7.31	68.27	2,565.23	112.87	271.59	294.11	0.44	-0.36	-1.95	
2,634.00	7.30	66.85	2,611.85	115.15	277.11	300.09	0.38	-0.02	-3.02	
LAST SDI MWD SURFACE SURVEY										
2,769.00	6.51	63.75	2,745.87	121.91	291.86	316.30	0.65	-0.59	-2.30	
FIRST SDI MWD PRODUCTION SURVEY										
2,863.00	5.72	67.79	2,839.33	126.04	300.98	326.30	0.96	-0.84	4.30	
2,958.00	4.48	79.65	2,933.96	128.49	309.01	334.66	1.71	-1.31	12.48	
3,052.00	3.43	101.71	3,027.74	128.58	315.38	340.58	1.95	-1.12	23.47	
3,146.00	3.08	128.08	3,121.59	126.45	320.12	344.14	1.62	-0.37	28.05	
3,241.00	1.67	170.09	3,216.51	123.52	322.37	345.09	2.27	-1.48	44.22	
3,335.00	0.88	137.92	3,310.49	121.63	323.09	345.03	1.10	-0.84	-34.22	
3,429.00	1.23	170.62	3,404.48	120.10	323.74	345.04	0.73	0.37	34.79	
3,524.00	0.97	39.22	3,499.47	119.72	324.41	345.51	2.11	-0.27	-138.32	
3,618.00	0.62	46.78	3,593.46	120.68	325.28	346.69	0.39	-0.37	8.04	
3,713.00	0.35	134.67	3,688.46	120.83	325.87	347.28	0.74	-0.28	92.52	
3,807.00	0.79	142.93	3,782.45	120.11	326.46	347.56	0.47	0.47	8.79	
3,902.00	0.53	253.76	3,877.45	119.47	326.43	347.29	1.15	-0.27	116.66	
3,996.00	0.70	234.87	3,971.44	119.01	325.55	346.29	0.28	0.18	-20.10	
4,091.00	0.88	235.57	4,066.43	118.27	324.47	345.01	0.19	0.19	0.74	
4,186.00	1.41	183.63	4,161.42	116.69	323.79	343.78	1.17	0.56	-54.67	
4,280.00	0.53	191.19	4,255.40	115.11	323.64	343.03	0.94	-0.94	8.04	
4,375.00	0.26	312.48	4,350.40	114.82	323.39	342.70	0.74	-0.28	127.67	
4,469.00	0.26	242.60	4,444.40	114.87	323.05	342.39	0.32	0.00	-74.34	
4,564.00	0.26	165.87	4,539.40	114.56	322.91	342.15	0.34	0.00	-80.77	
4,658.00	0.44	166.31	4,633.40	114.00	323.04	342.06	0.19	0.19	0.47	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well MORGAN STATE 921-36F1BS
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Site:	MORGAN STATE 921-36F2 PAD	MD Reference:	GL 4994 & KB 24 @ 5018.00ft (HP 318)
Well:	MORGAN STATE 921-36F1BS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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)
4,753.00	1.06	63.13	4,728.39	114.05	323.91	342.88	1.30	0.65	-108.61
4,847.00	0.88	61.64	4,822.38	114.78	325.33	344.46	0.19	-0.19	-1.59
4,942.00	0.88	329.61	4,917.37	115.76	325.60	345.09	1.33	0.00	-96.87
5,036.00	0.79	305.09	5,011.36	116.75	324.70	344.65	0.39	-0.10	-26.09
5,131.00	0.70	306.06	5,106.35	117.47	323.70	343.99	0.10	-0.09	1.02
5,225.00	0.88	25.51	5,200.35	118.46	323.54	344.23	1.08	0.19	84.52
5,319.00	0.70	359.85	5,294.34	119.69	323.85	344.99	0.42	-0.19	-27.30
5,414.00	1.06	87.12	5,389.33	120.31	324.73	346.04	1.31	0.38	91.86
5,508.00	0.97	97.50	5,483.31	120.25	326.39	347.54	0.22	-0.10	11.04
5,603.00	0.53	99.60	5,578.31	120.07	327.62	348.61	0.46	-0.46	2.21
5,697.00	0.79	161.04	5,672.30	119.39	328.26	348.94	0.76	0.28	65.36
5,792.00	0.88	152.34	5,767.29	118.12	328.81	348.96	0.16	0.09	-9.16
5,886.00	0.09	296.22	5,861.29	117.51	329.08	348.98	1.02	-0.84	153.06
5,981.00	0.18	207.18	5,956.29	117.41	328.94	348.82	0.21	0.09	-93.73
6,076.00	0.79	170.44	6,051.28	116.64	328.98	348.55	0.69	0.64	-38.67
6,170.00	0.70	266.16	6,145.28	115.96	328.52	347.86	1.18	-0.10	101.83
6,264.00	0.70	277.23	6,239.27	115.99	327.37	346.82	0.14	0.00	11.78
6,359.00	0.44	205.07	6,334.27	115.73	326.64	346.05	0.74	-0.27	-75.96
6,453.00	0.79	211.93	6,428.26	114.86	326.15	345.25	0.38	0.37	7.30
6,548.00	0.53	232.06	6,523.26	114.03	325.46	344.30	0.36	-0.27	21.19
6,642.00	0.26	39.05	6,617.26	113.93	325.25	344.07	0.84	-0.29	177.65
6,736.00	0.26	101.71	6,711.25	114.05	325.59	344.43	0.29	0.00	66.66
6,831.00	0.79	139.98	6,806.25	113.51	326.22	344.80	0.64	0.56	40.28
6,925.00	0.70	132.39	6,900.24	112.62	327.06	345.24	0.14	-0.10	-8.07
7,019.00	0.35	322.14	6,994.24	112.46	327.31	345.41	1.11	-0.37	-181.12
7,114.00	0.44	284.35	7,089.24	112.78	326.78	345.04	0.28	0.09	-39.78
7,208.00	0.70	159.19	7,183.24	112.34	326.63	344.74	1.08	0.28	-133.15
7,303.00	1.23	322.32	7,278.23	112.60	326.22	344.45	2.01	0.56	171.72
7,397.00	0.53	343.15	7,372.22	113.81	325.47	344.23	0.81	-0.74	22.16
7,491.00	0.26	345.52	7,466.22	114.44	325.30	344.31	0.29	-0.29	2.52
7,585.00	0.26	268.18	7,560.22	114.64	325.03	344.14	0.35	0.00	-82.28
7,679.00	0.70	65.24	7,654.21	114.87	325.34	344.51	1.01	0.47	167.09
7,774.00	0.70	88.97	7,749.21	115.12	326.44	345.63	0.30	0.00	24.98
7,868.00	0.44	330.05	7,843.20	115.45	326.84	346.12	1.05	-0.28	-126.51
7,963.00	0.18	42.74	7,938.20	115.87	326.76	346.21	0.45	-0.27	76.52
8,057.00	0.88	139.68	8,032.20	115.43	327.32	346.56	0.98	0.74	103.13
8,152.00	0.70	248.32	8,127.19	114.66	327.26	346.20	1.36	-0.19	114.36
8,246.00	0.35	231.18	8,221.19	114.27	326.50	345.35	0.40	-0.37	-18.23
8,340.00	0.53	175.37	8,315.19	113.65	326.31	344.94	0.47	0.19	-59.37
8,435.00	1.06	9.87	8,410.18	114.08	326.50	345.28	1.66	0.56	-174.21
8,529.00	0.62	353.70	8,504.17	115.44	326.59	345.89	0.53	-0.47	-17.20
8,623.00	0.88	74.56	8,598.17	116.14	327.23	346.75	1.06	0.28	86.02
8,718.00	0.62	52.41	8,693.16	116.65	328.34	347.97	0.41	-0.27	-23.32
8,812.00	0.88	123.86	8,787.15	116.56	329.34	348.86	0.96	0.28	76.01

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well MORGAN STATE 921-36F1BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL 4994 & KB 24 @ 5018.00ft (HP 318)
Site:	MORGAN STATE 921-36F2 PAD	MD Reference:	GL 4994 & KB 24 @ 5018.00ft (HP 318)
Well:	MORGAN STATE 921-36F1BS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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)
8,907.00	1.06	127.38	8,882.14	115.62	330.65	349.70	0.20	0.19	3.71
9,001.00	1.14	131.68	8,976.12	114.47	332.04	350.54	0.12	0.09	4.57
9,095.00	1.49	172.73	9,070.10	112.63	332.89	350.63	1.04	0.37	43.67
9,190.00	1.85	155.90	9,165.06	110.01	333.67	350.34	0.64	0.38	-17.72
9,284.00	1.67	147.42	9,259.02	107.47	335.03	350.62	0.34	-0.19	-9.02
9,379.00	2.46	141.00	9,353.95	104.72	337.06	351.44	0.87	0.83	-6.76
9,457.00	2.64	148.12	9,431.88	101.89	339.06	352.20	0.47	0.23	9.13
LAST SDI MWD PRODUCTION SURVEY									
9,511.00	2.64	148.12	9,485.82	99.78	340.37	352.61	0.00	0.00	0.00
SDI PROJECTION TO BIT									

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,642.00	2,619.78	8 5/8"	8.625	11.000

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
244.00	243.99	0.10	1.40	FIRST SDI MWD SURFACE SURVEY
2,634.00	2,611.85	115.15	277.11	LAST SDI MWD SURFACE SURVEY
2,769.00	2,745.87	121.91	291.86	FIRST SDI MWD PRODUCTION SURVEY
9,457.00	9,431.88	101.89	339.06	LAST SDI MWD PRODUCTION SURVEY
9,511.00	9,485.82	99.78	340.37	SDI PROJECTION TO BIT

Checked By: _____ Approved By: _____ Date: _____