

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

FORM 3

AMENDED REPORT

<b>APPLICATION FOR PERMIT TO DRILL</b>		<b>1. WELL NAME and NUMBER</b> Morgan State 921-36N1CS
<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>		<b>3. FIELD OR WILDCAT</b> NATURAL BUTTES
<b>4. TYPE OF WELL</b> Gas Well      Coalbed Methane Well: NO		<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b>
<b>6. NAME OF OPERATOR</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. OPERATOR PHONE</b> 720 929-6515
<b>8. ADDRESS OF OPERATOR</b> P.O. Box 173779, Denver, CO, 80217		<b>9. OPERATOR E-MAIL</b> julie.jacobson@anadarko.com
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> ML 22265	<b>11. MINERAL OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>	
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b>		<b>12. SURFACE OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b>		<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b>
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>		<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>
<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>		<b>19. SLANT</b> 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	998 FSL 1765 FWL	SESW	36	9.0 S	21.0 E	S
Top of Uppermost Producing Zone	838 FSL 2146 FWL	SESW	36	9.0 S	21.0 E	S
At Total Depth	838 FSL 2146 FWL	SESW	36	9.0 S	21.0 E	S

<b>21. COUNTY</b> UINTAH	<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 838	<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 639
<b>27. ELEVATION - GROUND LEVEL</b> 5025	<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 377	<b>26. PROPOSED DEPTH</b> MD: 10517    TVD: 10487
	<b>28. BOND NUMBER</b> 22013542	<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> 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 - 2560	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 - 10517	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

<b>NAME</b> Danielle Piernot	<b>TITLE</b> Regulatory Analyst	<b>PHONE</b> 720 929-6156
<b>SIGNATURE</b>	<b>DATE</b> 12/20/2011	<b>EMAIL</b> danielle.piernot@anadarko.com
<b>API NUMBER ASSIGNED</b> 43047522650000	<b>APPROVAL</b>  Permit Manager	

# 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.)

Found 1" Aluminum Cap on 5/8" Rebar. Pile of Stones.

Found 1" Aluminum Cap on 5/8" Rebar, with a Stone on East side of Cap.

Found 1977 Brass Cap. Pile of Stones.

MORGAN STATE 921-36N1CS (Surface Position)  
 NAD 83 LATITUDE = 39.988144° (39° 59' 17.317")  
 LONGITUDE = 109.503172° (109° 30' 11.419")  
 NAD 27 LATITUDE = 39.988179° (39° 59' 17.443")  
 LONGITUDE = 109.502486° (109° 30' 08.948")

MORGAN STATE 921-36N1CS (Bottom Hole)  
 NAD 83 LATITUDE = 39.987721° (39° 59' 15.797")  
 LONGITUDE = 109.501813° (109° 30' 06.528")  
 NAD 27 LATITUDE = 39.987756° (39° 59' 15.923")  
 LONGITUDE = 109.501127° (109° 30' 04.058")

Found 1977 Brass Cap, Steel Post & Pile of Stones.

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**WELL LOCATION:  
 MORGAN STATE 921-36N1CS**

ELEV. UNGRADED GROUND = 5025.4'

N00°03'41"W - 2641.51' (Meas.)  
 N00°03'E - 79.80 (G.L.O.)

N00°05'54"E - 2569.93' (Meas.)  
 N0°04'E - 38.96 (G.L.O.)

Found 1 1/2" Aluminum Cap on 5/8" Rebar in Pile of Stones.

Well Surface Position  
 Bottom of Hole

1765'

2146'

LOT 4

LOT 3

LOT 2

LOT 1

SW Cor. Sec. 36  
 C.C.: Found 1977 Brass Cap.

1/4 Cor. Sec. 36:  
 Found 1977 Brass Cap in Pile of Stones.

Found 1977 Brass Cap, Set Stone, Steel Post & Pile of Stones.

99.10'

2579.41'

998'

838'

34.36'

2657.23'

NW Cor. Sec. 1:  
 Found 1977 Brass Cap.

S89°06'03"W (Basis of Bearings)

2678.51' (Measured)

S89°06'W - 40.59 (G.L.O.)

1/4 Cor. Sec. 1:  
 Found 1977 Brass Cap in Pile of Stones.

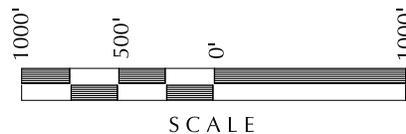
N88°43'26"W - 2691.59' (Meas.)

N88°46'W - 40.78 (G.L.O.)

**NOTES:**

▲ = Section Corners Located

- Well footages are measured at right angles to the Section Lines.
- G.L.O. distances are shown in feet or chains.  
1 chain = 66 feet.
- The Bottom of hole bears S67°58'32"E 410.70' from the Surface Position.
- Bearings are based on Global Positioning Satellite observations.
- Basis of elevation is Tri-Sta "Two Water" located in the NW 1/4 of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.



**SURVEYOR'S CERTIFICATE**

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

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 921-36N**

**MORGAN STATE 921-36N1CS  
 WELL PLAT**

**838' FSL, 2146' FWL (Bottom Hole)  
 LOT 3 OF SECTION 36, T9S, R21E,  
 S.L.B.&M., UTAH COUNTY, UTAH.**



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

**TIMBERLINE**

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.  
 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 9-20-11	SURVEYED BY: J.W.	SHEET NO: <b>1</b>
DATE DRAWN: 11-03-11	DRAWN BY: T.J.R.	
SCALE: 1" = 1000'	Date Last Revised:	1 OF 16