

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 NBU 922-33K4CS |
| 2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/> | | 3. FIELD OR WILDCAT NATURAL BUTTES |
| 4. TYPE OF WELL Gas Well Coalbed Methane Well: NO | | 5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES |
| 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) UTU-01191-A | 11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/> | |
| 12. SURFACE OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input 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 | 886 FSL 2267 FWL | SESW | 33 | 9.0 S | 22.0 E | S |
| Top of Uppermost Producing Zone | 1563 FSL 2141 FWL | NESW | 33 | 9.0 S | 22.0 E | S |
| At Total Depth | 1563 FSL 2141 FWL | NESW | 33 | 9.0 S | 22.0 E | S |

| | | |
|---|---|---|
| 21. COUNTY UINTAH | 22. DISTANCE TO NEAREST LEASE LINE (Feet) 555 | 23. NUMBER OF ACRES IN DRILLING UNIT 1363 |
| 24. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 687 | 25. PROPOSED DEPTH MD: 10312 TVD: 10226 | |
| 26. ELEVATION - GROUND LEVEL 5067 | 27. BOND NUMBER WYB000291 | 28. 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 | 11 | 8.625 | 0 - 2430 | 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 - 10312 | 11.6 | HCP-110 LT&C | 12.5 | Premium Lite High Strength | 310 | 3.38 | 12.0 |
| | | | | | | | 50/50 Poz | 1500 | 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 Gina Becker | TITLE Regulatory Analyst II | PHONE 720 929-6086 |
| SIGNATURE | DATE 12/14/2012 | EMAIL gina.becker@anadarko.com |
| API NUMBER ASSIGNED 43047534240000 | APPROVAL  Permit Manager | |

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

NBU 922-33K4CS

Surface: 886 FSL / 2267 FWL SESW
BHL: 1563 FSL / 2141 FWL NESW

Section 33 T9S R22E

Unitah County, Utah
Mineral Lease: UTU-01191-A

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 | 1,284' | |
| Birds Nest | 1,596' | Water |
| Mahogany | 1,977' | Water |
| Wasatch | 4,466' | Gas |
| Mesaverde | 6,925' | Gas |
| Sego | 9,122' | Gas |
| Castlegate | 9,184' | Gas |
| Blackhawk | 9,626' | Gas |
| TVD = | 10,226' | |
| TD = | 10,312' | |

- 2.c Kerr McGee Oil & Gas Onshore LP (Kerr McGee) may elect to drill to (i) the Blackhawk formation (part of the Mesaverde Group), (ii) to a shallower depth within the Mesaverde Group, or (iii) to the Wasatch Formation. If Kerr McGee drills to the Blackhawk formation, please refer to Blackhawk 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 a shallower depth in the Mesaverde Group or to the Wasatch Formation, please refer to the attached Wasatch/Mesaverde Drilling Program which includes Total Vertical Depth, Total Depth, and appropriate casing and cement programs for the shallower formations.

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 Standard Operating Practices on file with the BLM Vernal Field Office.

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 Group)**

Maximum anticipated bottom hole pressure calculated at 10226' TVD, approximately equals
6,545 psi (0.64 psi/ft = actual bottomhole gradient)

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

Maximum anticipated surface pressure equals approximately 4,281 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 Formation/Mesaverde Group

Maximum anticipated bottom hole pressure calculated at 9122' TVD, approximately equals
5,564 psi (0.61 psi/ft = actual bottomhole gradient)

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

Maximum anticipated surface pressure equals approximately 3,582 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. Variations:

Please refer to the Standard Operating Practices on file with the BLM Vernal Field Office.

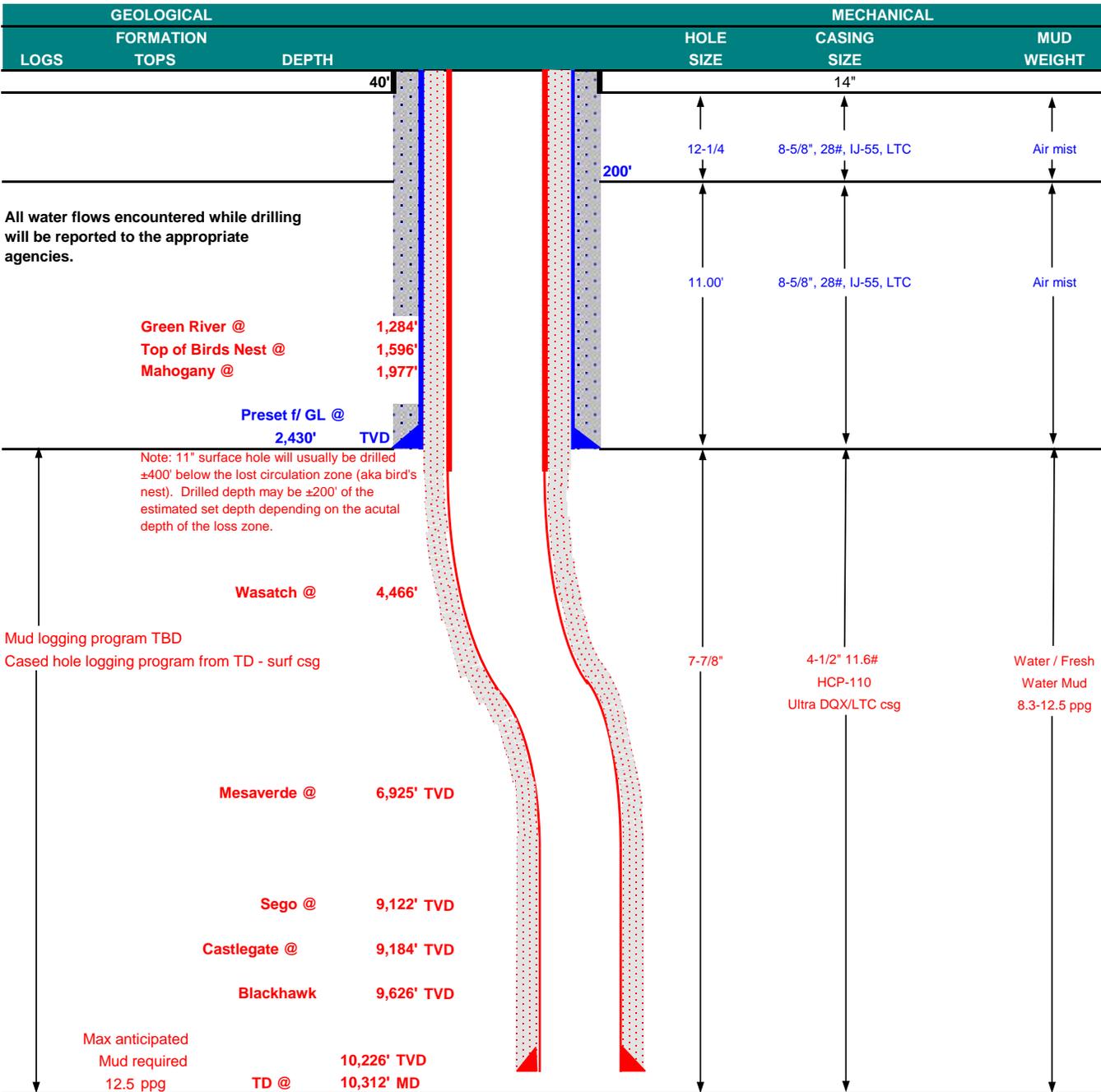
10. Other Information:

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 | November 12, 2012 | | |
| WELL NAME | NBU 922-33K4CS | | | TD | 10,226' | 10,312' MD | |
| FIELD | Natural Buttes | COUNTY | Uintah | STATE | Utah | FINISHED ELEVATION | 5,067' |
| SURFACE LOCATION | SESW | 886 FSL | 2267 FWL | Sec 33 | T 9S | R 22E | |
| | Latitude: | 39.987696 | Longitude: | -109.446313 | | NAD 83 | |
| BTM HOLE LOCATION | NESW | 1563 FSL | 2141 FWL | Sec 33 | T 9S | R 22E | |
| | Latitude: | 39.989554 | Longitude: | -109.446770 | | NAD 83 | |
| OBJECTIVE ZONE(S) | BLACKHAWK (Part of the Mesaverde Group) | | | | | | |
| ADDITIONAL INFO | Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept. | | | | | | |





KERR-McGEE OIL & GAS ONSHORE LP
Blackhawk Drilling Program

CASING PROGRAM

| | | | | | | | DESIGN FACTORS | | | |
|------------|--------|----------|------------|-------|---------|-------|----------------|----------|---------|---------|
| | | | | | | | LTC | DQX | | |
| | SIZE | INTERVAL | | WT. | GR. | CPLG. | BURST | COLLAPSE | TENSION | |
| CONDUCTOR | 14" | 0-40' | | | | | 3,390 | 1.880 | 348,000 | N/A |
| SURFACE | 8-5/8" | 0 | to 2,430 | 28.00 | IJ-55 | LTC | 2.21 | 1.65 | 5.84 | N/A |
| PRODUCTION | 4-1/2" | 0 | to 5,000 | 11.60 | HCP-110 | DQX | 10,690 | 8,650 | 279,000 | 367,174 |
| | 4-1/2" | 5,000 | to 10,312' | 11.60 | HCP-110 | LTC | 1.19 | 1.30 | 5.60 | 3.79 |

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 @ 9000 psi) 0.64 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

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

CEMENT PROGRAM

| | | FT. OF FILL | DESCRIPTION | SACKS | EXCESS | WEIGHT | YIELD |
|---|----------------------|-------------|--|---------|--------|--------|-------|
| SURFACE Option 1 | LEAD | 500' | Premium cmt + 2% CaCl + 0.25 pps flocele | 180 | 60% | 15.80 | 1.15 |
| | TOP OUT CMT (6 jobs) | 1,200' | 20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele | 270 | 0% | 15.80 | 1.15 |
| NOTE: If well will circulate water to surface, option 2 will be utilized | | | | | | | |
| SURFACE Option 2 | LEAD | 1,930' | Premium cmt + 16% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOC + GR 3 pps | 280 | 35% | 12.00 | 2.86 |
| | TAIL | 500' | Premium cmt + 2% CaCl + 0.25 pps flocele | 170 | 35% | 15.80 | 1.15 |
| | TOP OUT CMT | as required | Premium cmt + 2% CaCl | as req. | | 15.80 | 1.15 |
| PRODUCTION | LEAD | 3,962' | Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender | 310 | 35% | 12.00 | 3.38 |
| | TAIL | 6,350' | 50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3 | 1,500 | 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. 1 centralizer on the first 3 joints and one every third joint thereafter. |

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.

IF extreme mud losses are observed OR cement doesn't reach surface on a well on the pad, a DV Tool may be used. With Cement Baskets above and Below it.

DRILLING ENGINEER: _____
Nick Spence / Danny Showers / Travis Hansell

DATE: _____

DRILLING SUPERINTENDENT: _____
Kenny Gathings / Lovel Young

DATE: _____



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' | | | | | | | | |
| SURFACE | 8-5/8" | 0 | to 2,430 | 28.00 | IJ-55 | LTC | 3,390 | 1,880 | 348,000 | N/A |
| | | | | | | | 2.21 | 1.65 | 5.84 | N/A |
| PRODUCTION | 4-1/2" | 0 | to 5,000 | 11.60 | I-80 | DQX | 7,780 | 6,350 | | 267,035 |
| | | | | | | | 1.11 | 1.12 | | 3.06 |
| | | | | | | | 7,780 | 6,350 | 223,000 | |
| | 4-1/2" | 5,000 | to 9,208' | 11.60 | I-80 | LTC | 1.11 | 1.12 | 5.59 | |

Surface Casing:

(Burst Assumptions: TD = 12.0 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)

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| SURFACE Option 2 | LEAD | 1,930' | Premium cmt + 16% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOC + GR 3 pps | 280 | 35% | 12.00 | | 2.86 |
| | TAIL | 500' | Premium cmt + 2% CaCl + 0.25 pps Flocele + 3% salt BWOC + GR 3 pps | 150 | 35% | 15.80 | | 1.15 |
| | TOP OUT CMT | as required | Premium cmt + 2% CaCl | as req. | | 15.80 | | 1.15 |
| PRODUCTION | LEAD | 3,958' | Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender | 310 | 35% | 12.00 | | 3.38 |
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DRILLING ENGINEER:

Nick Spence / Danny Showers / Travis Hansell

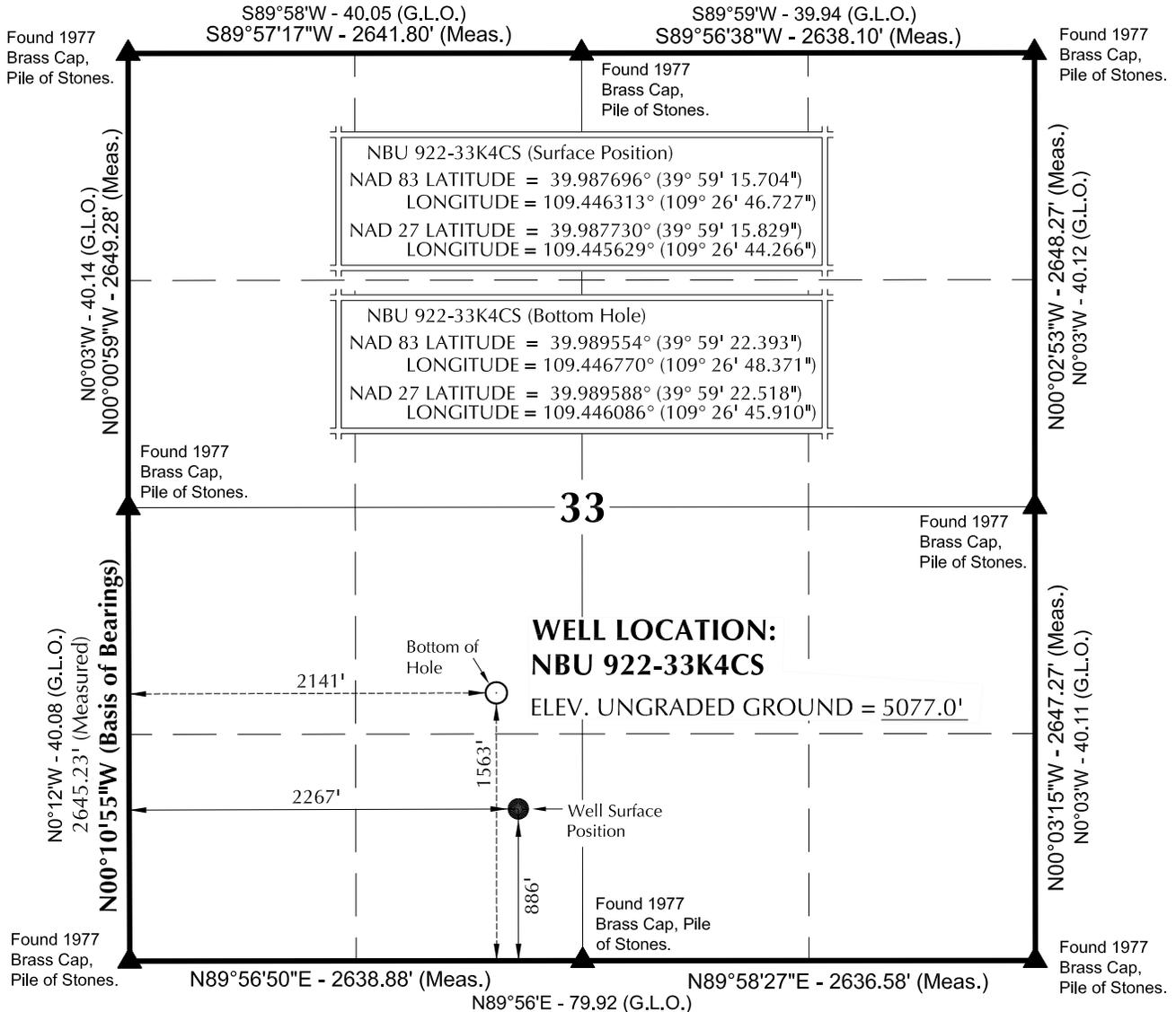
DATE:

DRILLING SUPERINTENDENT:

Kenny Gathings / Lovel Young

DATE:

T9S, R22E, S.L.B.&M.



NOTES:

- ▲ = Section Corners Located
- 1. Well footages are measured at right angles to the Section Lines.
- 2. G.L.O. distances are shown in feet or chains.
1 chain = 66 feet.
- 3. The Bottom of hole bears N10°43'04"W 689.03' 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.

6-21-12
 No. 6028691
JOHN R. LAUGH
 PROFESSIONAL LAND SURVEYOR
 STATE OF UTAH

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

WELL PAD: NBU 922-33N

**NBU 922-33K4CS
 WELL PLAT**
 1563' FSL, 2141' FWL (Bottom Hole)
 NE ¼ SW ¼ OF SECTION 33, T9S, R22E,
 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

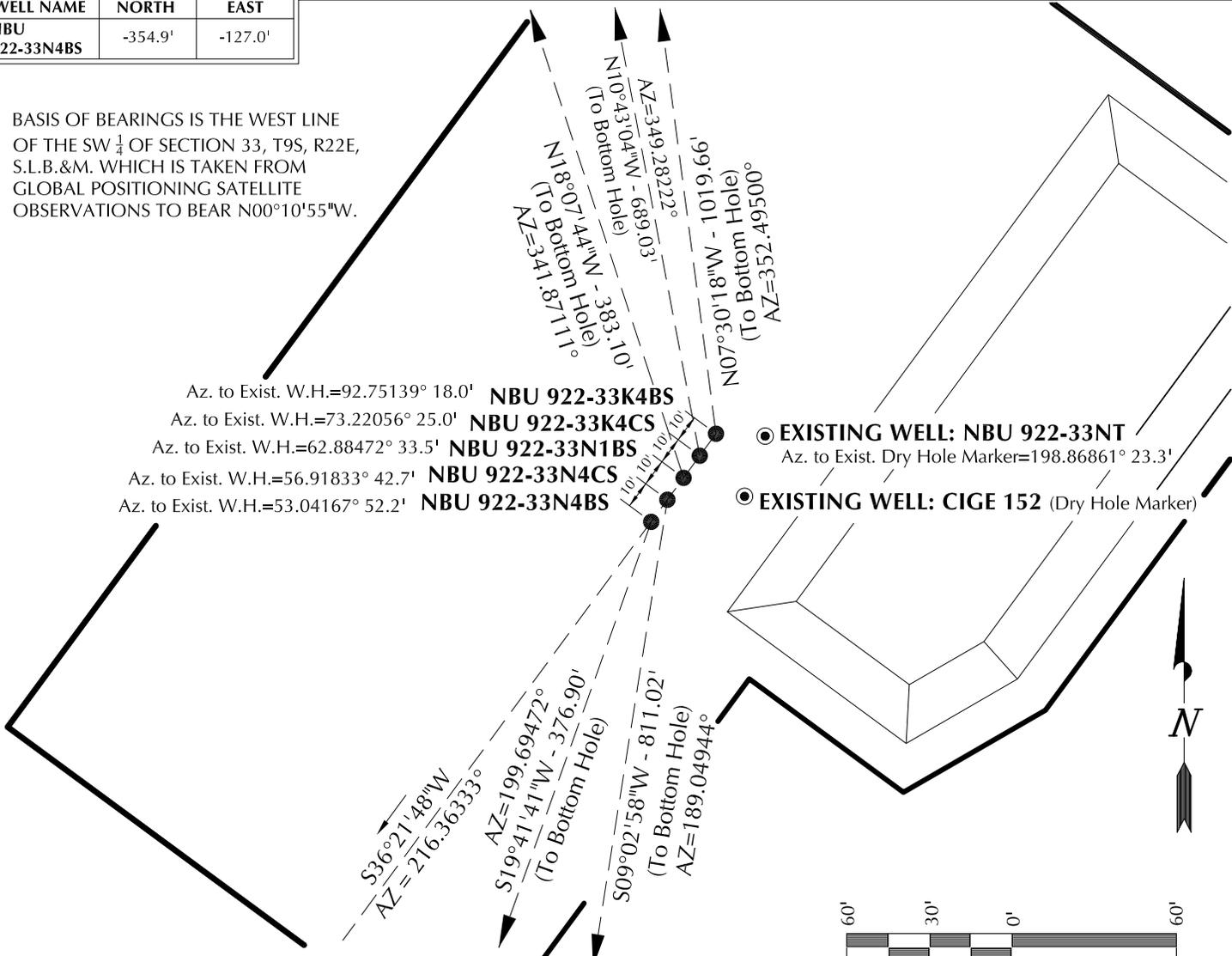
| | | |
|---------------------------|-------------------|-----------------------|
| DATE SURVEYED: 5-31-12 | SURVEYED BY: W.W. | SHEET NO: 2 |
| DATE DRAWN: 6-13-12 | DRAWN BY: M.W.W. | |
| SCALE: 1" = 1000' | | 2 OF 17 |

| WELL NAME | SURFACE POSITION | | | | | BOTTOM HOLE | | | | |
|----------------|------------------|----------------|---------------|----------------|-----------------------|---------------|----------------|---------------|----------------|------------------------|
| | NAD83 | | NAD27 | | FOOTAGES | NAD83 | | NAD27 | | FOOTAGES |
| | LATITUDE | LONGITUDE | LATITUDE | LONGITUDE | | LATITUDE | LONGITUDE | LATITUDE | LONGITUDE | |
| NBU 922-33K4BS | 39°59'15.784" | 109°26'46.651" | 39°59'15.909" | 109°26'44.190" | 894' FSL 2273' FWL | 39°59'25.772" | 109°26'48.359" | 39°59'25.897" | 109°26'45.897" | 1905' FSL 2143' FWL |
| NBU 922-33K4CS | 39°59'15.704" | 109°26'46.727" | 39°59'15.829" | 109°26'44.266" | 886' FSL 2267' FWL | 39°59'22.393" | 109°26'48.371" | 39°59'22.518" | 109°26'45.910" | 1563' FSL 2141' FWL |
| NBU 922-33N1BS | 39°59'15.625" | 109°26'46.803" | 39°59'15.750" | 109°26'44.342" | 878' FSL 2261' FWL | 39°59'19.222" | 109°26'48.333" | 39°59'19.347" | 109°26'45.872" | 1242' FSL 2143' FWL |
| NBU 922-33N4CS | 39°59'15.545" | 109°26'46.879" | 39°59'15.670" | 109°26'44.418" | 870' FSL 2255' FWL | 39°59'07.633" | 109°26'48.520" | 39°59'07.758" | 109°26'46.059" | 69' FSL 2125' FWL |
| NBU 922-33N4BS | 39°59'15.466" | 109°26'46.956" | 39°59'15.591" | 109°26'44.494" | 862' FSL 2249' FWL | 39°59'11.960" | 109°26'48.588" | 39°59'12.085" | 109°26'46.127" | 507' FSL 2121' FWL |
| NBU 922-33NT | 39°59'15.776" | 109°26'46.420" | 39°59'15.900" | 109°26'43.959" | 893' FSL 2291' FWL | 39°59'11.960" | 109°26'48.588" | 39°59'12.085" | 109°26'46.127" | 507' FSL 2121' FWL |
| CIGE 152 | 39°59'15.558" | 109°26'46.517" | 39°59'15.683" | 109°26'44.056" | 871' FSL 2283' FWL | 39°59'11.960" | 109°26'48.588" | 39°59'12.085" | 109°26'46.127" | 507' FSL 2121' 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 |
|----------------|----------|---------|----------------|--------|---------|----------------|--------|---------|----------------|---------|---------|
| NBU 922-33K4BS | 1,010.9' | -133.2' | NBU 922-33K4CS | 677.0' | -128.1' | NBU 922-33N1BS | 364.1' | -119.2' | NBU 922-33N4CS | -800.9' | -127.6' |
| NBU 922-33N4BS | -354.9' | -127.0' | | | | | | | | | |

BASIS OF BEARINGS IS THE WEST LINE OF THE SW ¼ OF SECTION 33, T9S, R22E, S.L.B.&M. WHICH IS TAKEN FROM GLOBAL POSITIONING SATELLITE OBSERVATIONS TO BEAR N00°10'55"W.



- Az. to Exist. W.H.=92.75139° 18.0' **NBU 922-33K4BS**
- Az. to Exist. W.H.=73.22056° 25.0' **NBU 922-33K4CS**
- Az. to Exist. W.H.=62.88472° 33.5' **NBU 922-33N1BS**
- Az. to Exist. W.H.=56.91833° 42.7' **NBU 922-33N4CS**
- Az. to Exist. W.H.=53.04167° 52.2' **NBU 922-33N4BS**
- EXISTING WELL: NBU 922-33NT**
Az. to Exist. Dry Hole Marker=198.86861° 23.3'
- EXISTING WELL: CIGE 152 (Dry Hole Marker)**

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

WELL PAD - NBU 922-33N

WELL PAD INTERFERENCE PLAT
WELLS - NBU 922-33K4BS,
NBU 922-33K4CS, NBU 922-33N1BS,
NBU 922-33N4CS & NBU 922-33N4BS
LOCATED IN SECTION 33, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH.

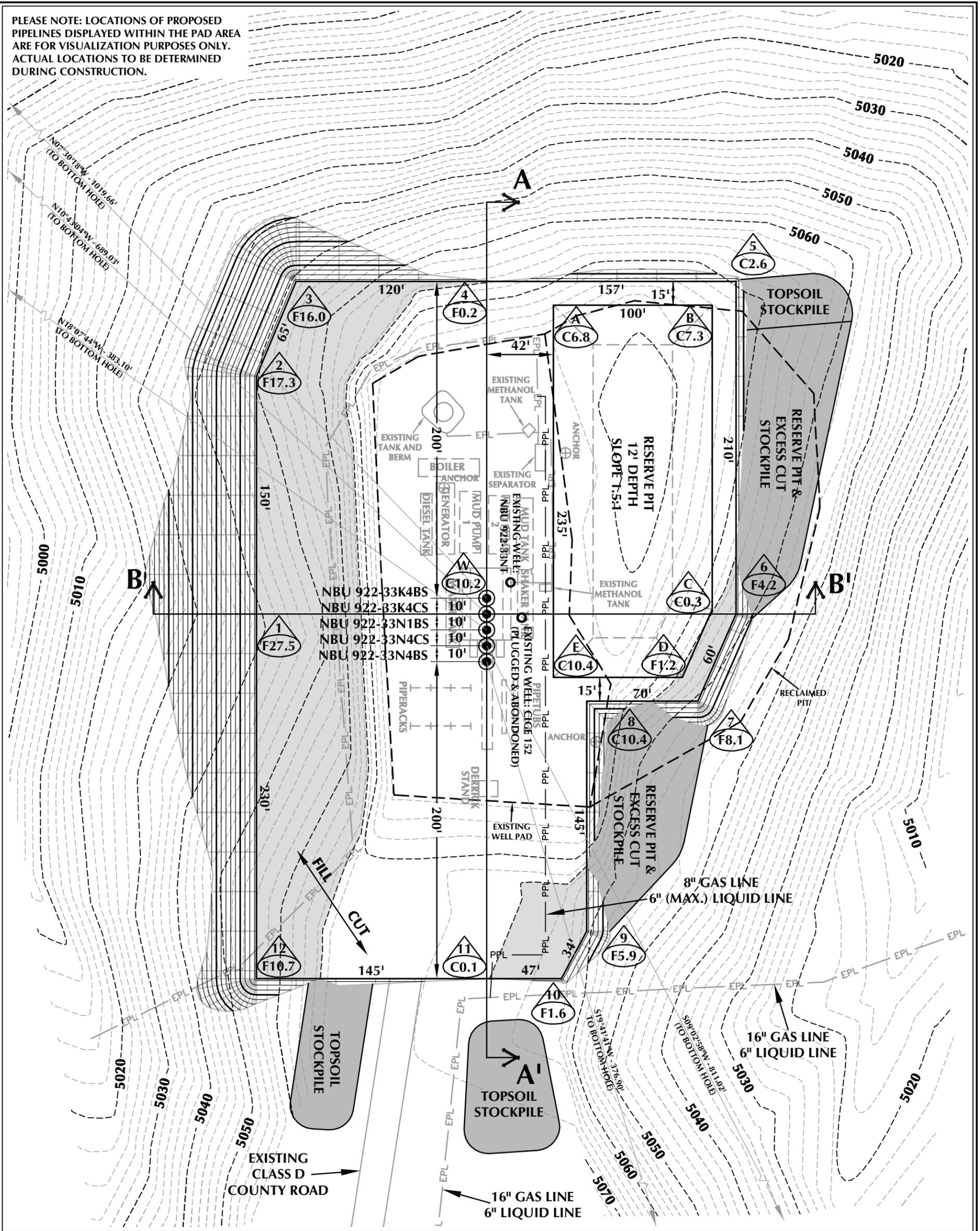


CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

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

| | | |
|---------------------------|-------------------|-----------------------|
| DATE SURVEYED: 5-31-12 | SURVEYED BY: W.W. | SHEET NO: 6 |
| DATE DRAWN: 6-13-12 | DRAWN BY: M.W.W. | |
| SCALE: 1" = 60' | | 6 OF 17 |

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



WELL PAD - NBU 922-33N DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5077.0'
 FINISHED GRADE ELEVATION = 5066.8'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1
 TOTAL WELL PAD AREA = 3.34 ACRES
 TOTAL DISTURBANCE AREA = 3.94 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00

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

WELL PAD - NBU 922-33N
WELL PAD - LOCATION LAYOUT
 NBU 922-33K4BS,
 NBU 922-33K4CS, NBU 922-33N1BS,
 NBU 922-33N4CS & NBU 922-33N4BS
 LOCATED IN SECTION 33, T9S, R22E,
 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

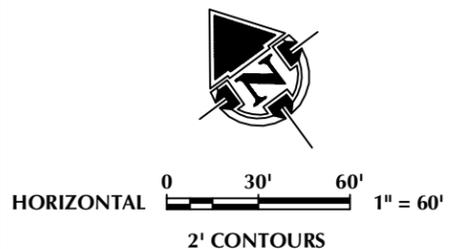
TOTAL CUT FOR WELL PAD = 25,093 C.Y.
 TOTAL FILL FOR WELL PAD = 23,498 C.Y.
 TOPSOIL @ 6" DEPTH = 2,049 C.Y.
 EXCESS MATERIAL = 1,595 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT
 +/- 7,830 C.Y.
 RESERVE PIT CAPACITY (2' OF FREEBOARD)
 +/- 29,780 BARRELS

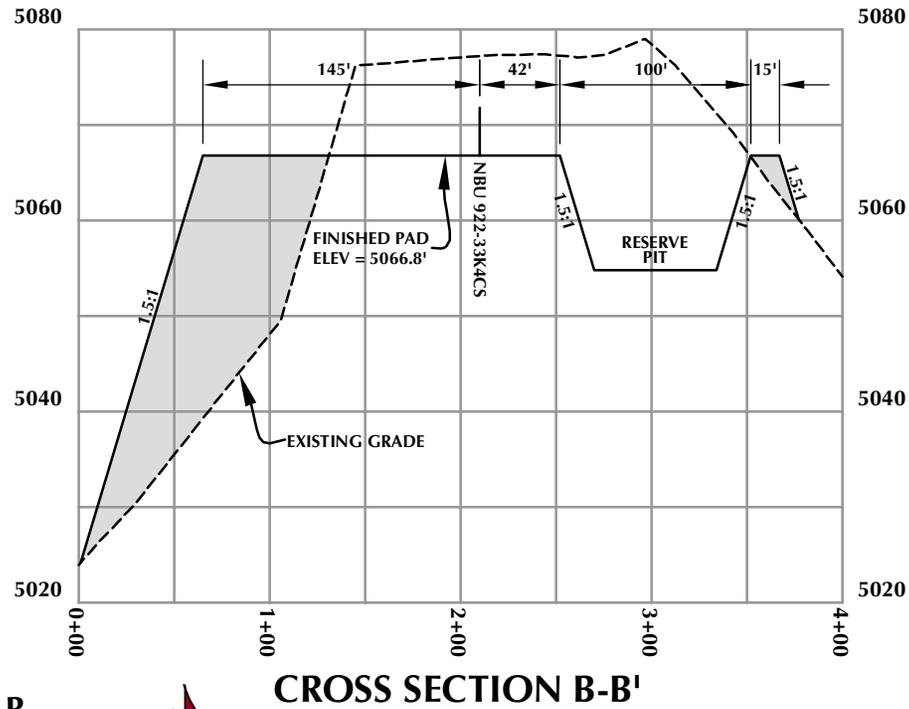
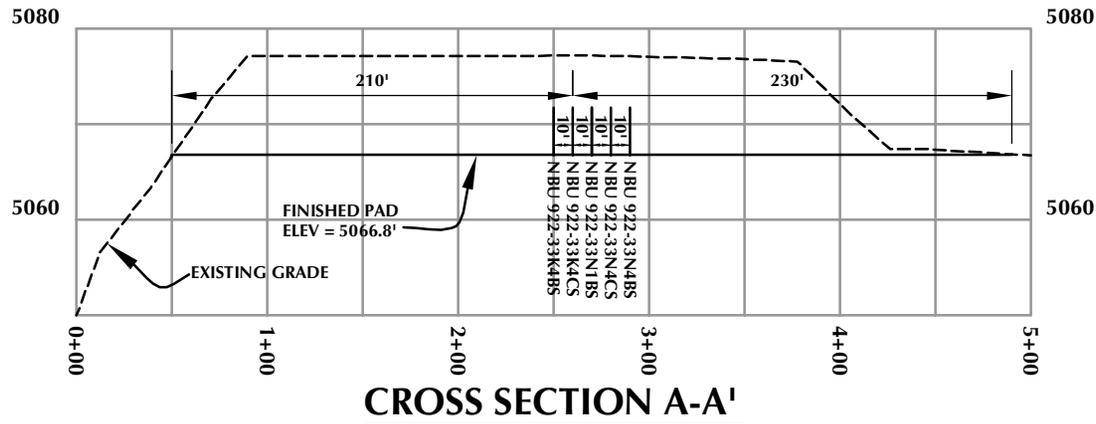
WELL PAD LEGEND

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



SCALE: 1"=60' DATE: 7/5/12 SHEET NO: 7 OF 17
 REVISED: APF 8/23/12

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 (435) 789-1365



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1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-33N

WELL PAD - CROSS SECTIONS
NBU 922-33K4BS,

NBU 922-33K4CS, NBU 922-33N1BS,
NBU 922-33N4CS & NBU 922-33N4BS
LOCATED IN SECTION 33, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH

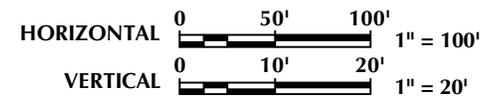


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NOTE: CROSS SECTION B-B' DEPICTS
MAXIMUM RESERVE PIT WIDTH.

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Scale: 1"=100'

Date: 7/5/12

SHEET NO:

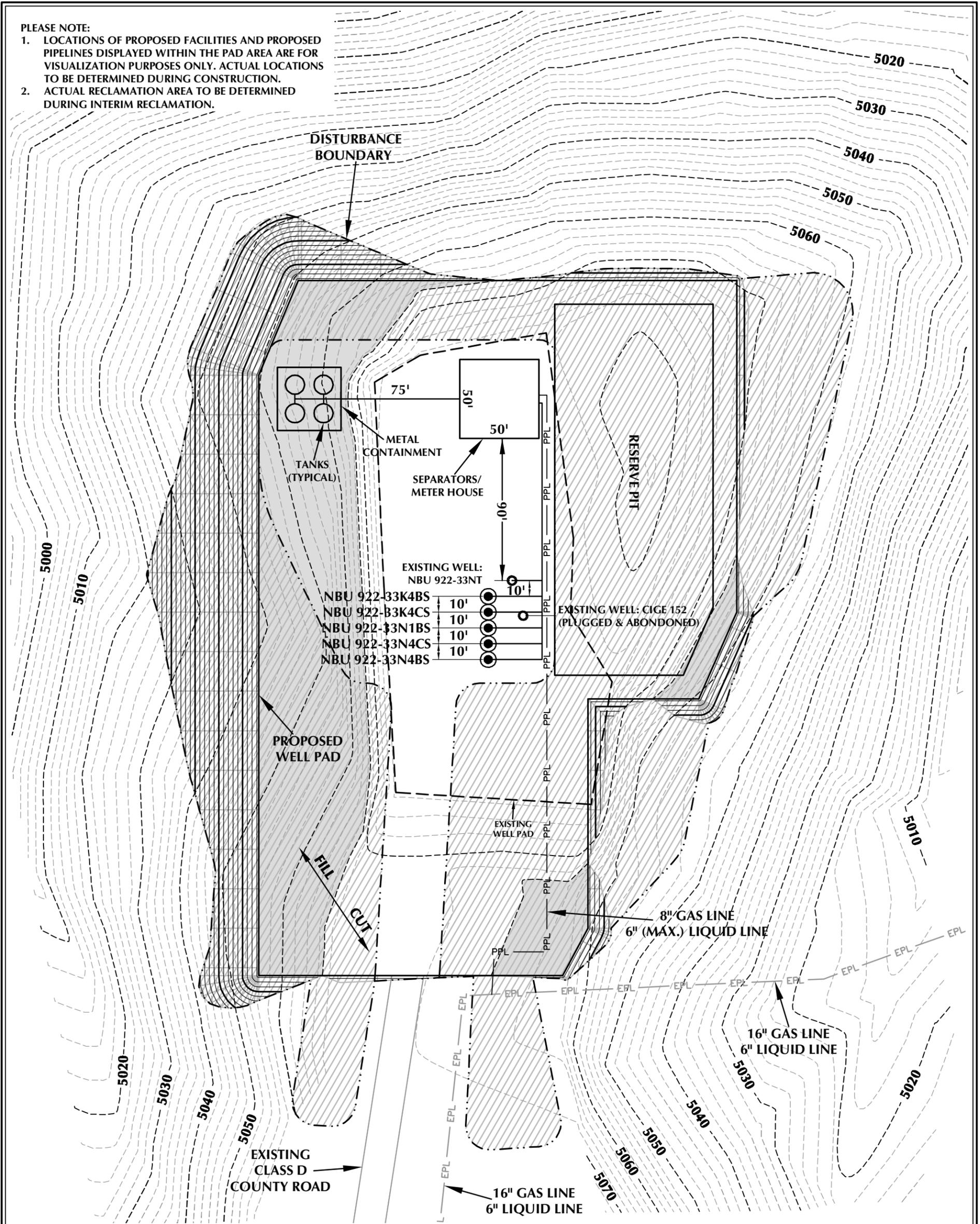
REVISED:

8

8 OF 17

PLEASE NOTE:

1. LOCATIONS OF PROPOSED FACILITIES AND PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.
2. ACTUAL RECLAMATION AREA TO BE DETERMINED DURING INTERIM RECLAMATION.



WELL PAD - NBU 922-33N DESIGN SUMMARY

TOTAL DISTURBANCE AREA = 3.94 ACRES (INCLUDING EXISTING)
 RECLAMATION AREA = 2.92 ACRES
 TOTAL WELL PAD AREA AFTER RECLAMATION = 1.02 ACRES

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

WELL PAD - NBU 922-33N

WELL PAD - RECLAMATION LAYOUT
 NBU 922-33K4BS,
 NBU 922-33K4CS, NBU 922-33N1BS,
 NBU 922-33N4CS & NBU 922-33N4BS
 LOCATED IN SECTION 33, T9S, R22E,
 S.L.B.&M., UINTAH COUNTY, UTAH

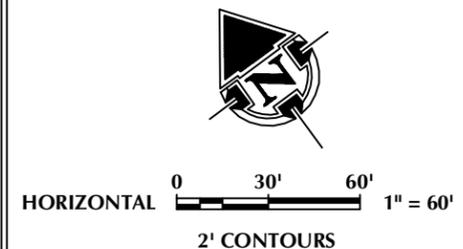


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 209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

| 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 |
| | RECLAMATION AREA |



| | | |
|---------------|--------------|-----------|
| SCALE: 1"=60' | DATE: 7/5/12 | SHEET NO: |
| REVISED: | APF 8/23/12 | 9 |
| | | 9 OF 17 |

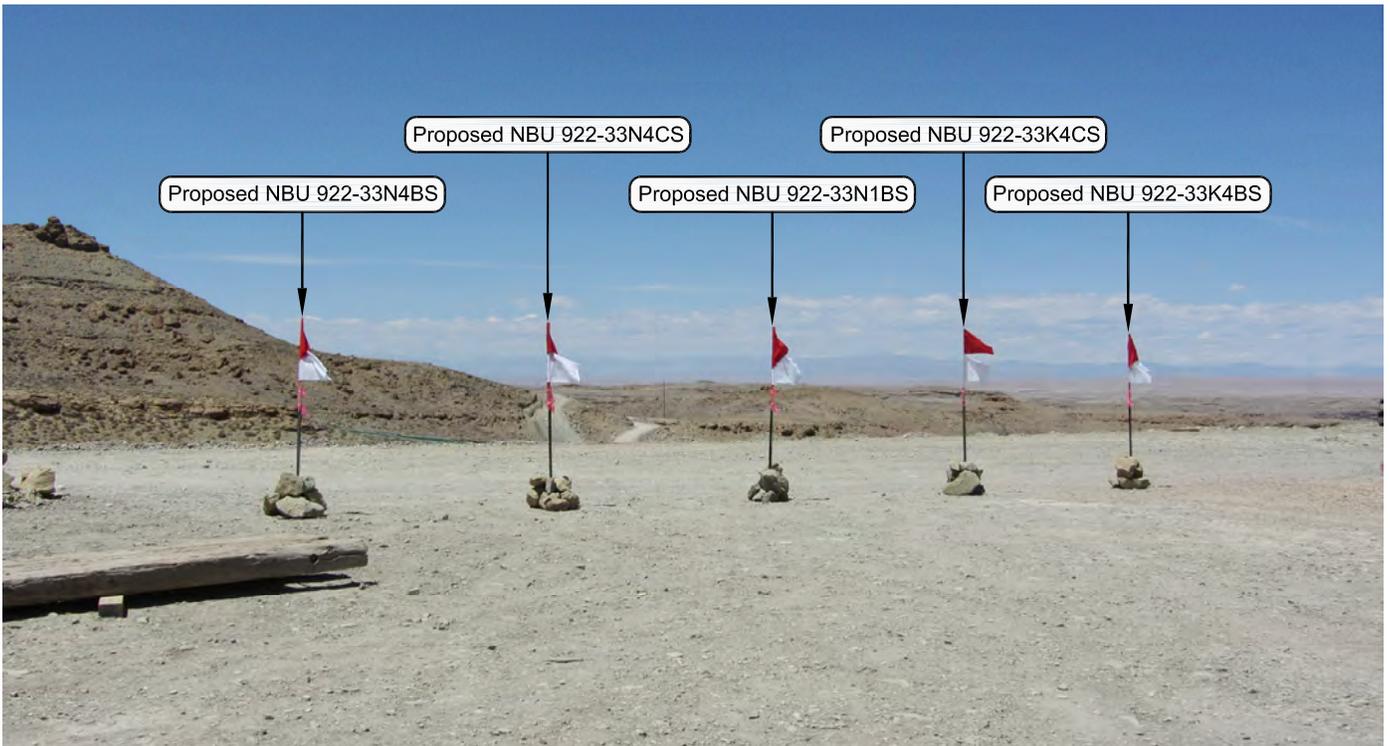


PHOTO VIEW: FROM PIT CORNER E TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY



PHOTO VIEW: FROM EXISTING ACCESS ROAD

CAMERA ANGLE: NORTHEASTERLY

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

WELL PAD - NBU 922-33N

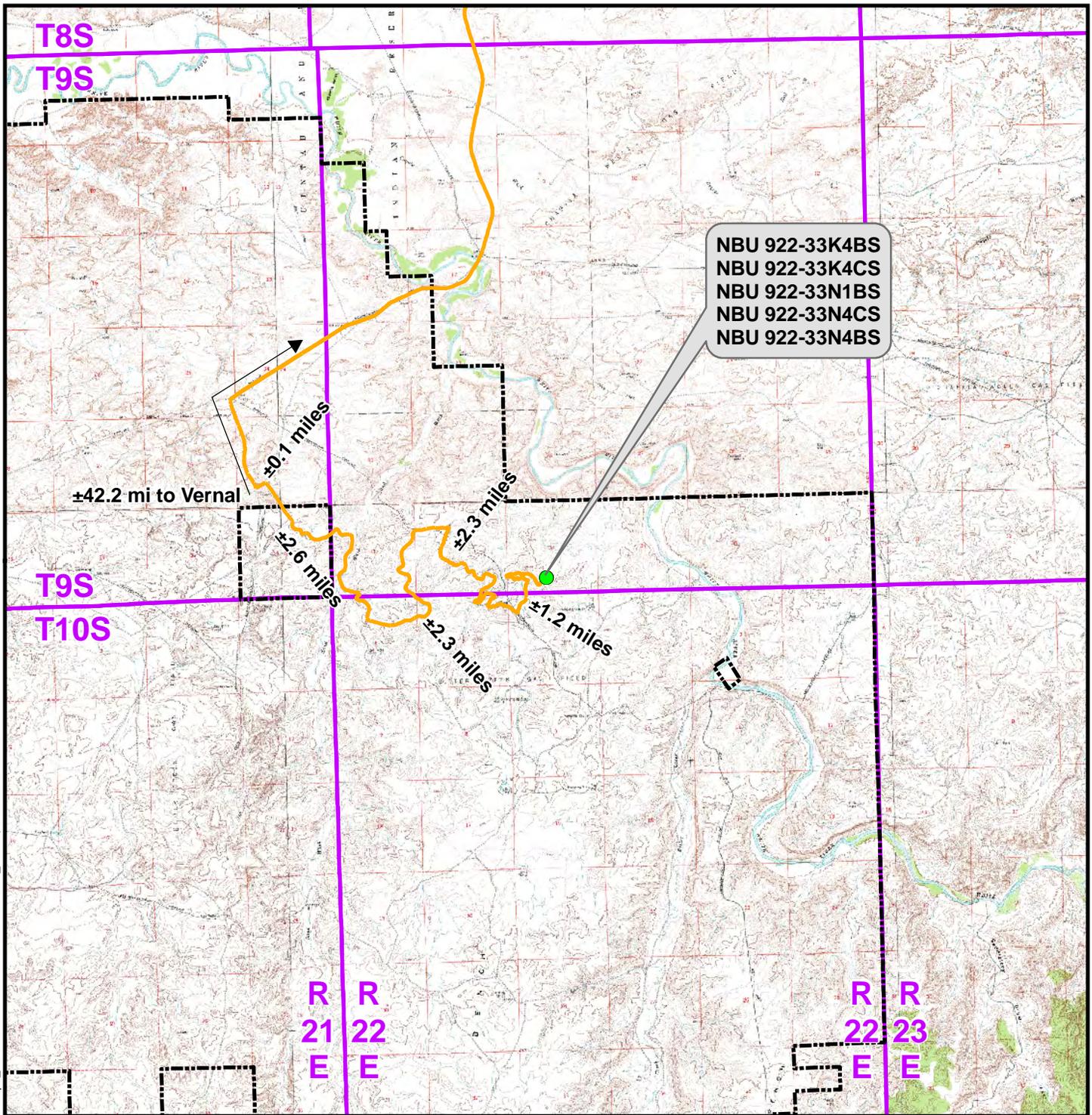
LOCATION PHOTOS
 NBU 922-33K4BS,
 NBU 922-33K4CS, NBU 922-33N1BS,
 NBU 922-33N4CS & NBU 922-33N4BS
 LOCATED IN SECTION 33, T9S, R22E,
 S.L.B.&M., Uintah County, Utah.



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

| | | |
|-------------------------------|-----------------------|------------------------|
| DATE PHOTOS TAKEN: 5-31-12 | PHOTOS TAKEN BY: W.W. | SHEET NO: 10 |
| DATE DRAWN: 6-13-12 | DRAWN BY: M.W.W. | |
| Date Last Revised: | | 10 OF 17 |



File: K:\ANADARKO\2012\12_14_NBU_FOCUS_922-33\GIS\Maps_ABCDENBU_922-33\NBU_922-33N_A.mxd, 6/22/2012 12:20:17 PM

Legend

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

Distance From Well Pad - NBU 922-33N To Unit Boundary: ±4,399ft

WELL PAD - NBU 922-33N

TOPO A
 NBU 922-33K4BS,
 NBU 922-33K4CS, NBU 922-33N1BS,
 NBU 922-33N4CS & NBU 922-33N4BS
 LOCATED IN SECTION 33, T9S, R22E,
 S.L.B.&M., UINTAH COUNTY, UTAH

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

1099 18th Street
 Denver, Colorado 80202



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



SCALE: 1:100,000

NAD83 USP Central

SHEET NO:

DRAWN: TL

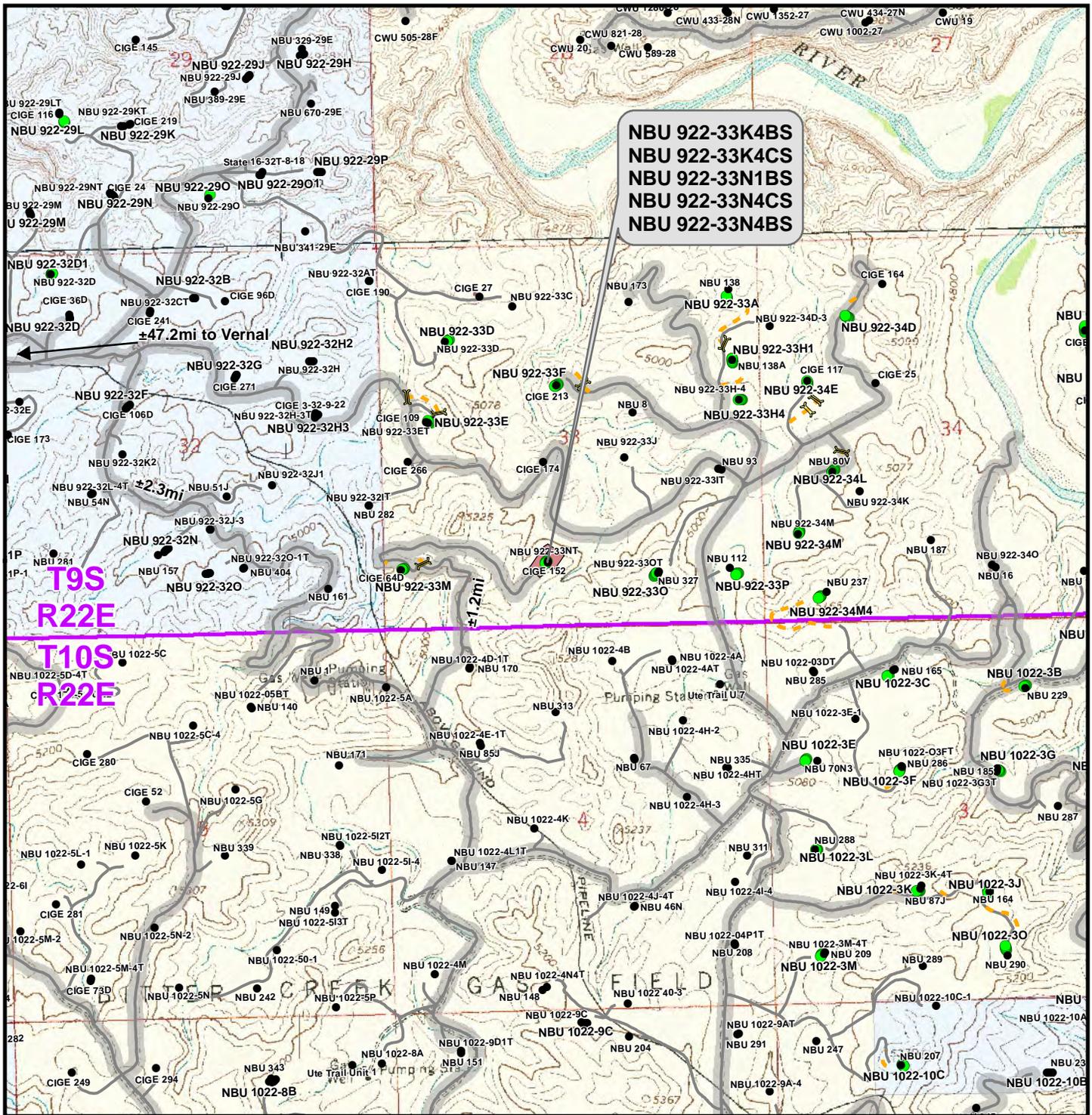
DATE: 24 Aug 2012

11

REVISED:

DATE:

11 OF 17



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Legend

- Well - Proposed
- Well - Existing
- Well Pad
- - - Road - Proposed
- - - Road - Existing
- ▬ County Road
- 🚧 Culvert/LWC - Proposed
- Bureau of Land Management
- Indian Reservation
- State
- Private

Total Proposed Road Length: ±0ft

WELL PAD - NBU 922-33N
TOPO B
NBU 922-33K4BS,
NBU 922-33K4CS, NBU 922-33N1BS,
NBU 922-33N4CS & NBU 922-33N4BS
LOCATED IN SECTION 33, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

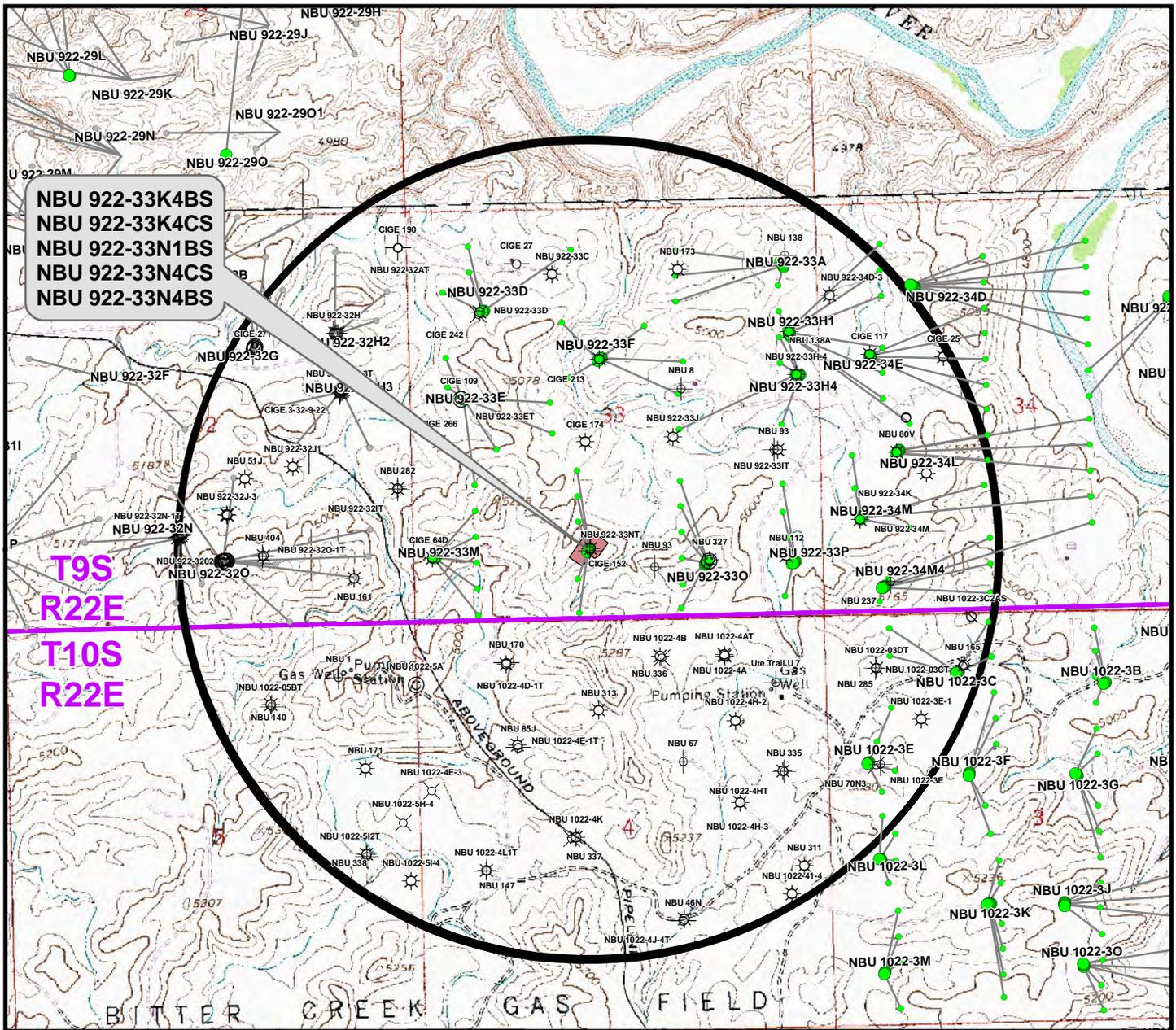
**Kerr-McGee Oil &
 Gas Onshore L.P.**
 1099 18th Street
 Denver, Colorado 80202



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



| | | | |
|---------------------|-------------------|-----------------------|-----------|
| SCALE: 1" = 2,000ft | NAD83 USP Central | SHEET NO: | 12 |
| DRAWN: TL | DATE: 24 Aug 2012 | 12 12 OF 17 | |
| REVISED: | DATE: | | |



**NBU 922-33K4BS
NBU 922-33K4CS
NBU 922-33N1BS
NBU 922-33N4CS
NBU 922-33N4BS**

**T9S
R22E
T10S
R22E**

Well locations derived from Utah Division of Oil, Gas and Mining (UDOGM) 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 |
|----------------|-------------------|---------|
| NBU 922-33K4BS | CIGE 174 | 378ft |
| NBU 922-33K4CS | NBU 922-33NT | 687ft |
| NBU 922-33N1BS | NBU 922-33NT | 379ft |
| NBU 922-33N4CS | CIGE 152 | 817ft |
| NBU 922-33N4BS | CIGE 152 | 398ft |

Legend

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

WELL PAD - NBU 922-33N

**TOPO C
NBU 922-33K4BS,
NBU 922-33K4CS, NBU 922-33N1BS,
NBU 922-33N4CS & NBU 922-33N4BS
LOCATED IN SECTION 33, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH**

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

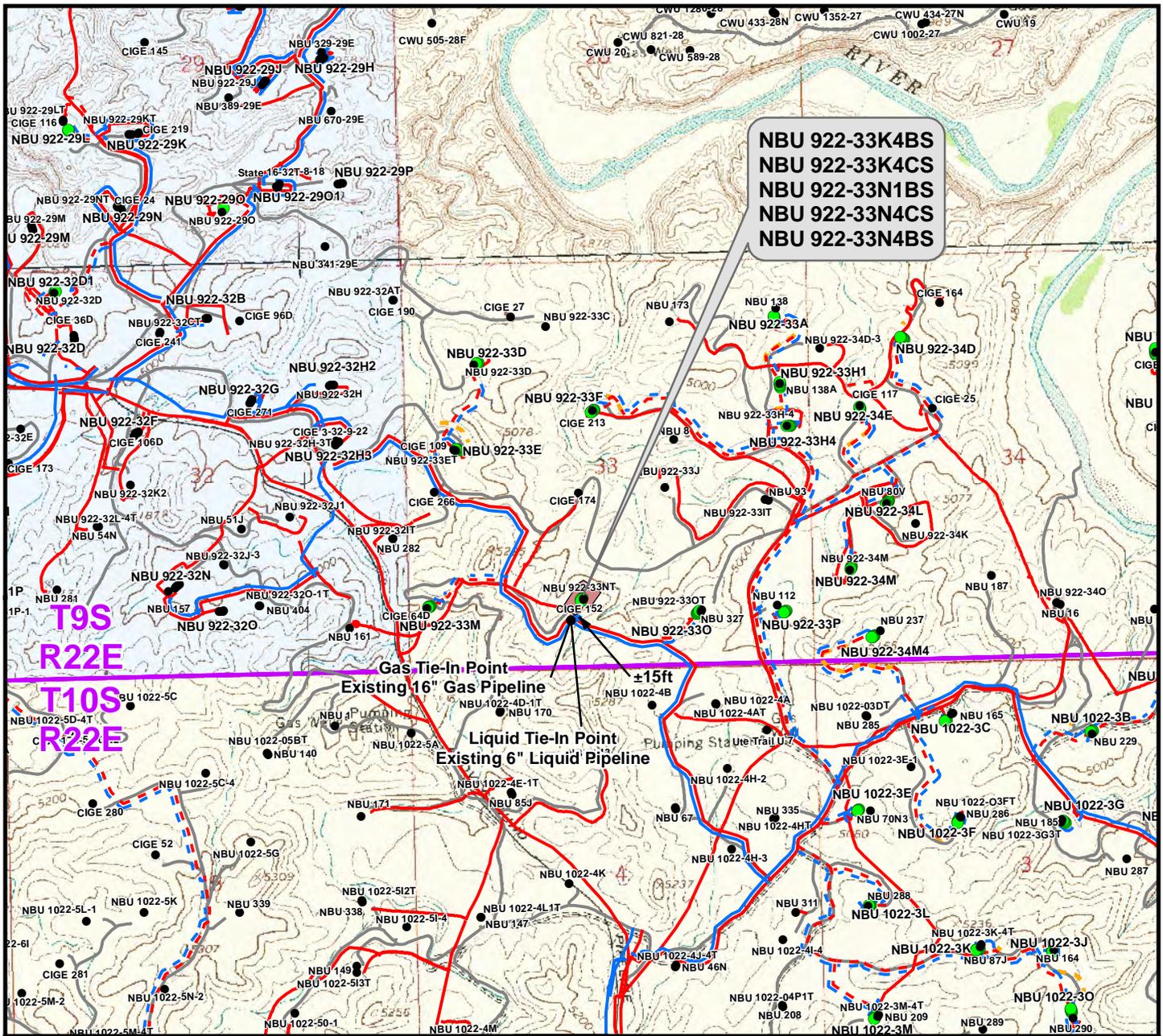
**1099 18th Street
Denver, Colorado 80202**



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

| | | |
|---------------------|-------------------|-----------|
| SCALE: 1" = 2,000ft | NAD83 USP Central | 13 |
| DRAWN: TL | DATE: 24 Aug 2012 | |
| REVISED: | DATE: | |

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**NBU 922-33K4BS
 NBU 922-33K4CS
 NBU 922-33N1BS
 NBU 922-33N4CS
 NBU 922-33N4BS**

| Proposed Liquid Pipeline | Length |
|---|---------------|
| Buried 6" (Max.) (Separator to Edge of Pad) | ±410ft |
| Buried 6" (Max.) (Edge of Pad to Existing 6" Liquid Pipeline) | ±15ft |
| TOTAL PROPOSED BURIED LIQUID PIPELINE = | ±425ft |

| Proposed Gas Pipeline | Length |
|--|---------------|
| Buried 8" (Meter House to Edge of Pad) | ±410ft |
| Buried 8" (Edge of Pad to Existing 16" Gas Pipeline) | ±15ft |
| TOTAL PROPOSED BURIED GAS PIPELINE = | ±425ft |

Legend

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

WELL PAD - NBU 922-33N

TOPO D
NBU 922-33K4BS,
NBU 922-33K4CS, NBU 922-33N1BS,
NBU 922-33N4CS & NBU 922-33N4BS
LOCATED IN SECTION 33, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

Kerr-McGee Oil & Gas Onshore L.P.

1099 18th Street
Denver, Colorado 80202

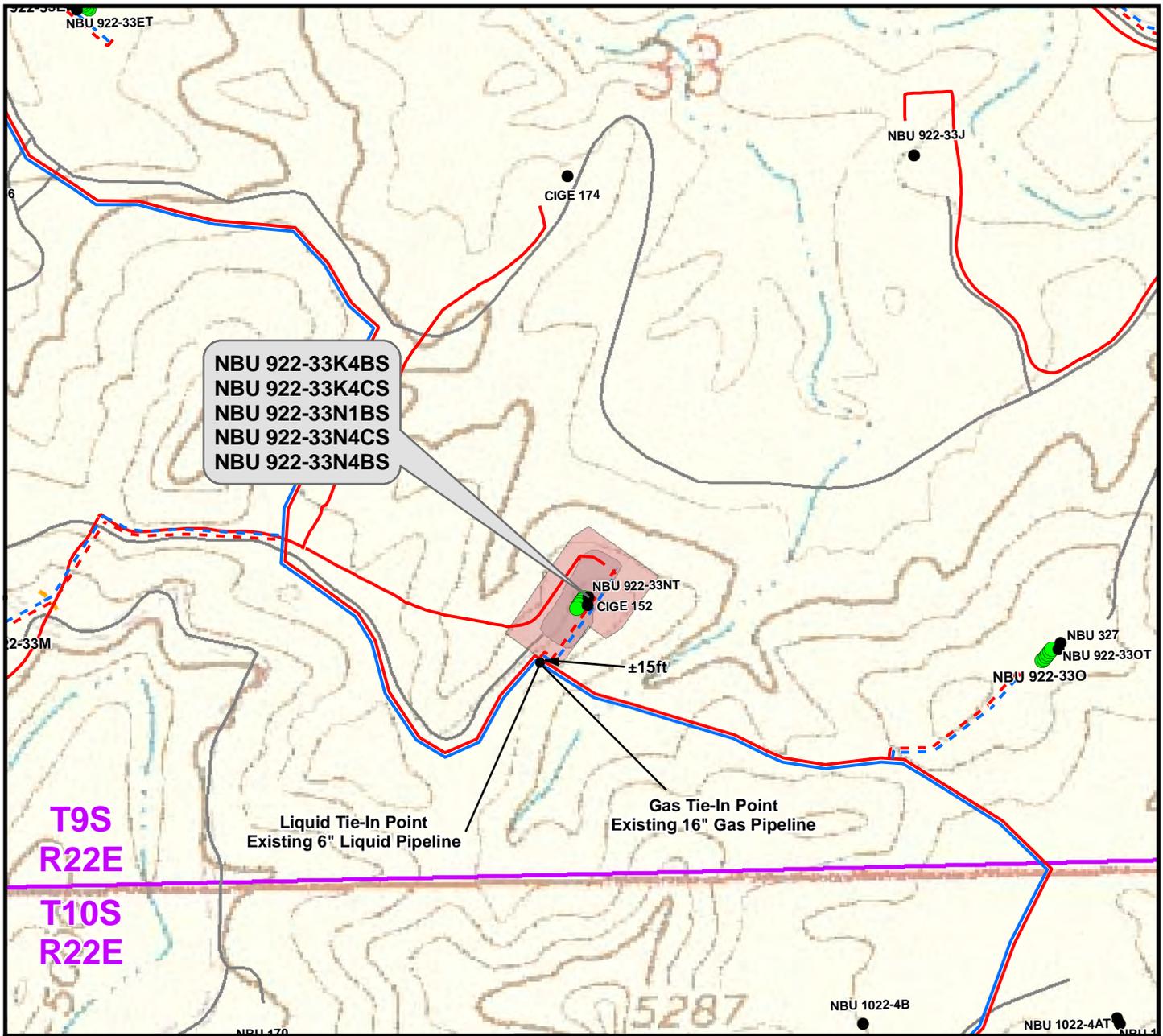
609 CONSULTING, LLC
 2155 North Main Street
 Sheridan, Wyoming 82801
 Phone 307-674-0609
 Fax 307-674-0182

N

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|---------------------|-------------------|-----------|
| SCALE: 1" = 2,000ft | NAD83 USP Central | 14 |
| DRAWN: TL | DATE: 24 Aug 2012 | |
| REVISED: | DATE: | |

SHEET NO:
14 OF 17

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| Proposed Liquid Pipeline | Length |
|---|---------------|
| Buried 6" (Max.) (Separator to Edge of Pad) | ±410ft |
| Buried 6" (Max.) (Edge of Pad to Existing 6" Liquid Pipeline) | ±15ft |
| TOTAL PROPOSED BURIED LIQUID PIPELINE = | ±425ft |

| Proposed Gas Pipeline | Length |
|--|---------------|
| Buried 8" (Meter House to Edge of Pad) | ±410ft |
| Buried 8" (Edge of Pad to Existing 16" Gas Pipeline) | ±15ft |
| TOTAL PROPOSED BURIED GAS PIPELINE = | ±425ft |

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 - NBU 922-33N
TOPO D2 (PAD & PIPELINE DETAIL)
 NBU 922-33K4BS,
 NBU 922-33K4CS, NBU 922-33N1BS,
 NBU 922-33N4CS & NBU 922-33N4BS
 LOCATED IN SECTION 33, T9S, R22E,
 S.L.B.&M., UINTAH COUNTY, UTAH

**Kerr-McGee Oil &
 Gas Onshore L.P.**
 1099 18th Street
 Denver, Colorado 80202

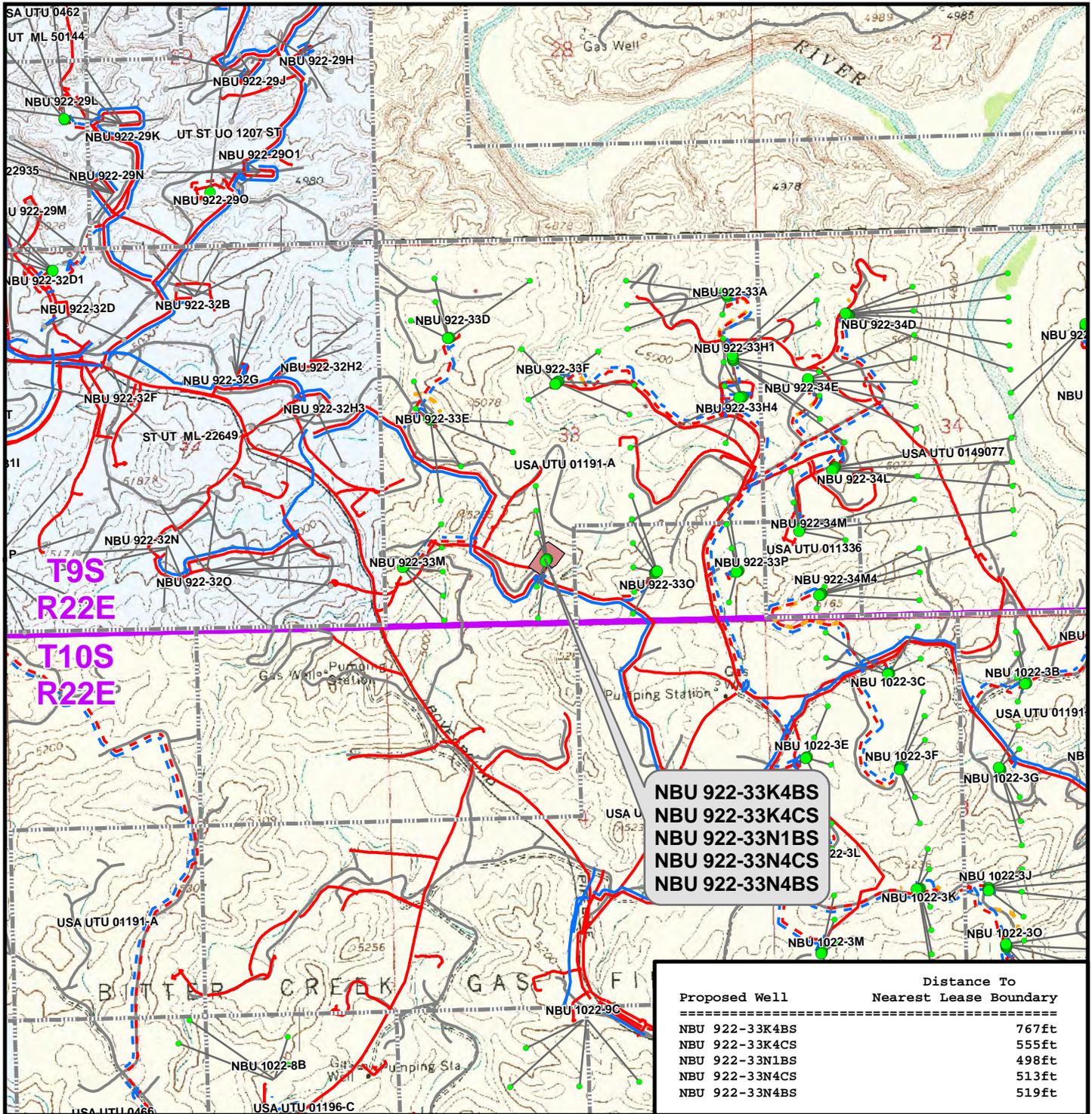


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| | | |
|-------------------|-------------------|-----------|
| SCALE: 1" = 500ft | NAD83 USP Central | 15 |
| DRAWN: TL | DATE: 24 Aug 2012 | |
| REVISED: | DATE: | |

SHEET NO:
15 OF 17



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Legend

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

WELL PAD - NBU 922-33N

TOPO E
 NBU 922-33K4BS,
 NBU 922-33K4CS, NBU 922-33N1BS,
 NBU 922-33N4CS & NBU 922-33N4BS
 LOCATED IN SECTION 33, T9S, R22E,
 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

DRAWN: TL

REVISED:

NAD83 USP Central

DATE: 24 Aug 2012

DATE:

SHEET NO:

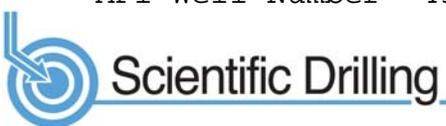
16

16 OF 17

**Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 922-33N
WELLS – NBU 922-33K4BS,
NBU 922-33K4CS, NBU 922-33N1BS,
NBU 922-33N4CS & NBU 922-33N4BS
Section 33, T9S, R22E, S.L.B.&M.**

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45; exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 18.7 miles to a Class D County Road to the northeast. Exit left and proceed in a northeasterly direction along the Class D County Road approximately 0.1 miles to a second Class D County Road to the southeast. Exit right and proceed in a southeasterly direction along the second Class D County Road approximately 2.6 miles to a third Class D County Road to the east. Exit left and proceed in an easterly, then northeasterly direction along the third Class D County Road approximately 2.3 miles to a fourth Class D County Road to the south. Exit right and proceed in a southerly, then southeasterly direction along the fourth Class D County Road approximately 2.3 miles to a fifth Class D County Road to the northeast. Exit left and proceed in an northeasterly, then northwesterly, then southeasterly, then northeasterly direction along the fifth Class D County Road approximately 1.2 miles to the proposed well location.

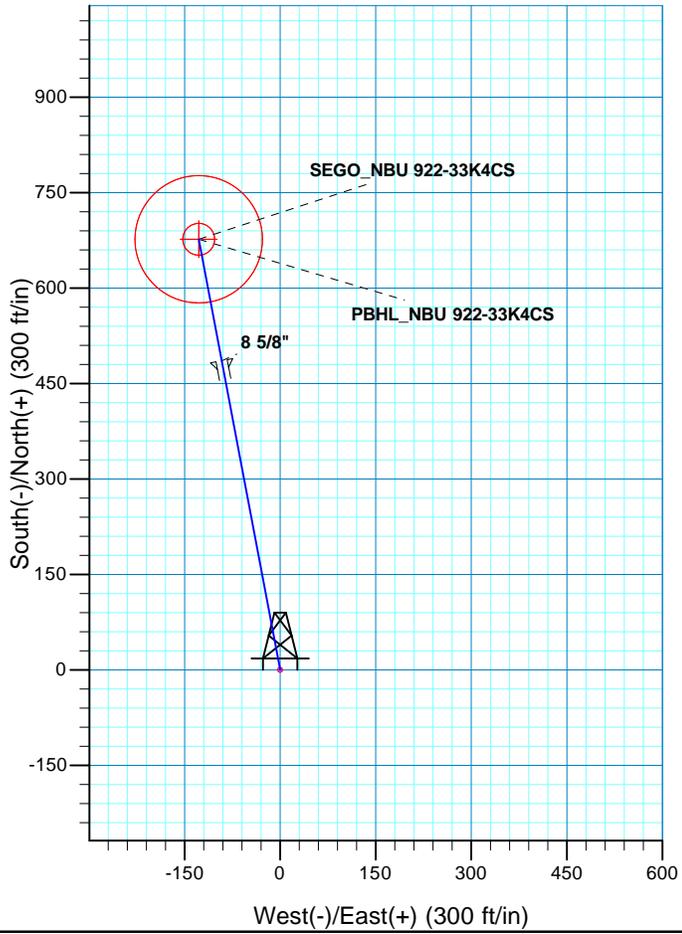
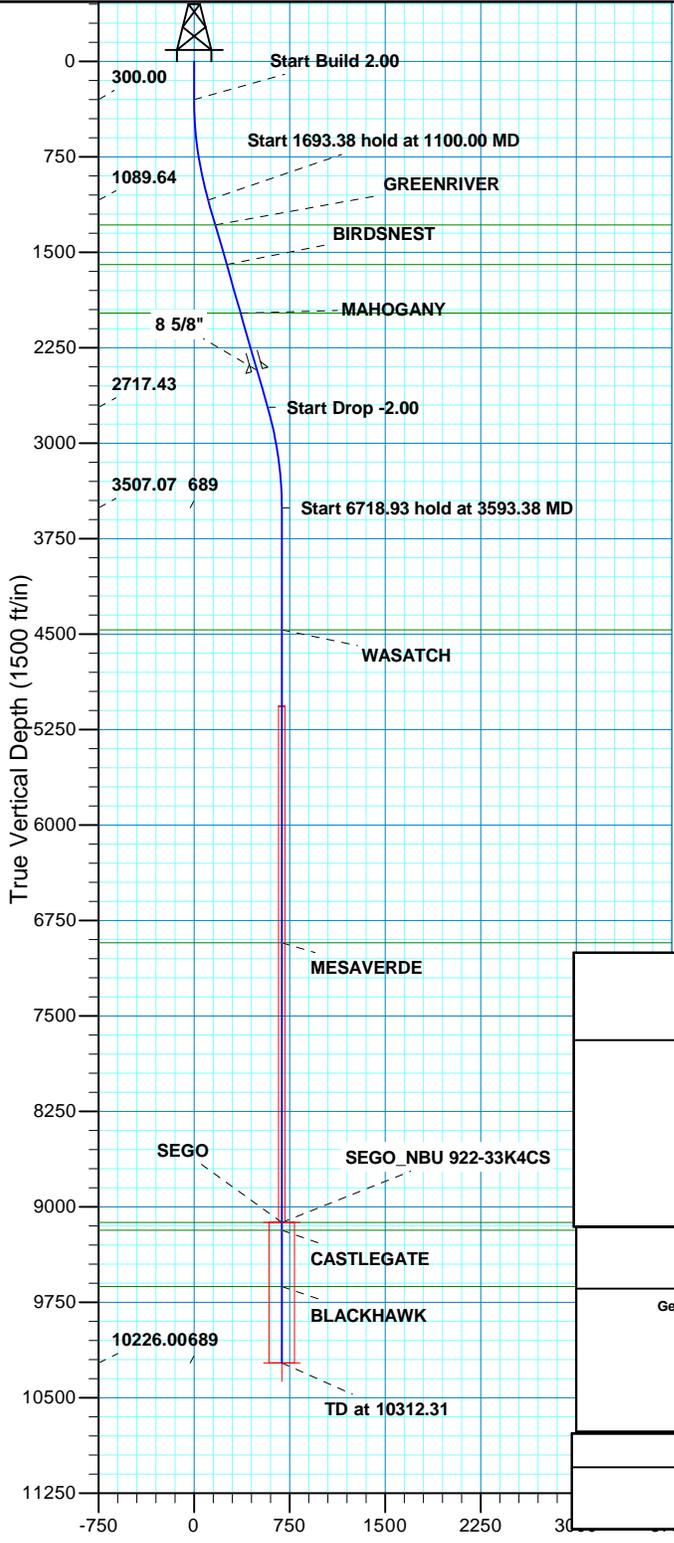
Total distance from Vernal, Utah to the proposed well location is approximately 50.7 miles in a southerly direction.



| WELL DETAILS: NBU 922-33K4CS | | | | | | | | |
|--------------------------------------|----------|--------|-------------|-------------|------------|-------------|-------------|-------------------------|
| GL 5067 & KB 4 @ 5071.00ft (ASSUMED) | | | | | | | | |
| | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | | |
| | 0.00 | 0.00 | 14525372.29 | 2075818.49 | 39.987730 | -109.445629 | | |
| DESIGN TARGET DETAILS | | | | | | | | |
| Name | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Shape |
| SEGO | 9122.00 | 676.71 | -128.03 | 14526046.66 | 2075678.68 | 39.989588 | -109.446086 | Circle (Radius: 25.00) |
| - plan hits target center | | | | | | | | |
| PBHL | 10226.00 | 676.71 | -128.03 | 14526046.66 | 2075678.68 | 39.989588 | -109.446086 | Circle (Radius: 100.00) |
| - plan hits target center | | | | | | | | |

Azimuths to True North
Magnetic North: 10.87°

Magnetic Field
Strength: 52190.1snT
Dip Angle: 65.83°
Date: 11/07/2012
Model: IGRF2010



| SECTION DETAILS | | | | | | | | | |
|-----------------|-------|--------|----------|--------|---------|------|--------|--------|---------------------|
| MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | VSEct | |
| 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 | |
| 1100.00 | 16.00 | 349.29 | 1089.64 | 109.04 | -20.63 | 2.00 | 349.29 | 110.98 | |
| 2793.38 | 16.00 | 349.29 | 2717.43 | 567.67 | -107.40 | 0.00 | 0.00 | 577.74 | |
| 3593.38 | 0.00 | 0.00 | 3507.07 | 676.71 | -128.03 | 2.00 | 180.00 | 688.71 | |
| 10312.31 | 0.00 | 0.00 | 10226.00 | 676.71 | -128.03 | 0.00 | 0.00 | 688.71 | PBHL_NBU 922-33K4CS |

| 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 33 T9S R22E | |
| System Datum: Mean Sea Level | |

| FORMATION TOP DETAILS | | |
|-----------------------|---------|------------|
| TVDPPath | MDPath | Formation |
| 1284.00 | 1302.19 | GREENRIVER |
| 1596.00 | 1626.76 | BIRDSNEST |
| 1977.00 | 2023.12 | MAHOGANY |
| 4466.00 | 4552.31 | WASATCH |
| 6925.00 | 7011.31 | MESAVERDE |
| 9122.00 | 9208.31 | SEGO |
| 9184.00 | 9270.31 | CASTLEGATE |
| 9626.00 | 9712.31 | BLACKHAWK |

| CASING DETAILS | | | |
|----------------|---------|--------|-------|
| TVD | MD | Name | Size |
| 2427.00 | 2491.25 | 8 5/8" | 8.625 |

Vertical Section at 349.29° (1500 ft/in)

RECEIVED :



Scientific Drilling

US ROCKIES REGION PLANNING

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

NBU 922-33N PAD

NBU 922-33K4CS

OH

Plan: PLAN #1 PRELIMINARY

Standard Planning Report

07 November, 2012





| | | | |
|------------------|------------------------------------|-------------------------------------|--------------------------------------|
| Database: | EDM5000-RobertS-Local | Local Co-ordinate Reference: | Well NBU 922-33K4CS |
| Company: | US ROCKIES REGION PLANNING | TVD Reference: | GL 5067 & KB 4 @ 5071.00ft (ASSUMED) |
| Project: | UTAH - UTM (feet), NAD27, Zone 12N | MD Reference: | GL 5067 & KB 4 @ 5071.00ft (ASSUMED) |
| Site: | NBU 922-33N PAD | North Reference: | True |
| Well: | NBU 922-33K4CS | 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 | NBU 922-33N PAD, SECTION 33 T9S R22E | | | | |
| Site Position: | Northing: | 14,525,380.77 usft | Latitude: | 39.987753 | |
| From: Lat/Long | Easting: | 2,075,824.22 usft | Longitude: | -109.445608 | |
| Position Uncertainty: | 0.00 ft | Slot Radius: | 13.200 in | Grid Convergence: | 1.00 ° |

| | | | | | | |
|-----------------------------|----------------------------------|----------|----------------------------|--------------------|----------------------|-------------|
| Well | NBU 922-33K4CS, 886 FSL 2267 FWL | | | | | |
| Well Position | +N/-S | -8.38 ft | Northing: | 14,525,372.29 usft | Latitude: | 39.987730 |
| | +E/-W | -5.88 ft | Easting: | 2,075,818.49 usft | Longitude: | -109.445629 |
| Position Uncertainty | | 0.00 ft | Wellhead Elevation: | | Ground Level: | 5,067.00 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | OH | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 11/07/12 | 10.87 | 65.83 | 52,190 |

| | | | | |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|
| 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 | 349.29 |

| Plan Sections | | | | | | | | | | |
|----------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|----------------------|---------------------|---------|-------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,100.00 | 16.00 | 349.29 | 1,089.64 | 109.04 | -20.63 | 2.00 | 2.00 | 0.00 | 349.29 | |
| 2,793.38 | 16.00 | 349.29 | 2,717.43 | 567.67 | -107.40 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3,593.38 | 0.00 | 0.00 | 3,507.07 | 676.71 | -128.03 | 2.00 | -2.00 | 0.00 | 180.00 | |
| 10,312.31 | 0.00 | 0.00 | 10,226.00 | 676.71 | -128.03 | 0.00 | 0.00 | 0.00 | 0.00 | PBHL_NBU 922-33K4 |



| | | | |
|------------------|------------------------------------|-------------------------------------|--------------------------------------|
| Database: | EDM5000-RobertS-Local | Local Co-ordinate Reference: | Well NBU 922-33K4CS |
| Company: | US ROCKIES REGION PLANNING | TVD Reference: | GL 5067 & KB 4 @ 5071.00ft (ASSUMED) |
| Project: | UTAH - UTM (feet), NAD27, Zone 12N | MD Reference: | GL 5067 & KB 4 @ 5071.00ft (ASSUMED) |
| Site: | NBU 922-33N PAD | North Reference: | True |
| Well: | NBU 922-33K4CS | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | PLAN #1 PRELIMINARY | | |

| Planned Survey | | | | | | | | | | |
|---|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|--|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Start Build 2.00 | | | | | | | | | | |
| 400.00 | 2.00 | 349.29 | 399.98 | 1.71 | -0.32 | 1.75 | 2.00 | 2.00 | 0.00 | |
| 500.00 | 4.00 | 349.29 | 499.84 | 6.86 | -1.30 | 6.98 | 2.00 | 2.00 | 0.00 | |
| 600.00 | 6.00 | 349.29 | 599.45 | 15.42 | -2.92 | 15.69 | 2.00 | 2.00 | 0.00 | |
| 700.00 | 8.00 | 349.29 | 698.70 | 27.39 | -5.18 | 27.88 | 2.00 | 2.00 | 0.00 | |
| 800.00 | 10.00 | 349.29 | 797.47 | 42.76 | -8.09 | 43.52 | 2.00 | 2.00 | 0.00 | |
| 900.00 | 12.00 | 349.29 | 895.62 | 61.51 | -11.64 | 62.60 | 2.00 | 2.00 | 0.00 | |
| 1,000.00 | 14.00 | 349.29 | 993.06 | 83.61 | -15.82 | 85.10 | 2.00 | 2.00 | 0.00 | |
| 1,100.00 | 16.00 | 349.29 | 1,089.64 | 109.04 | -20.63 | 110.98 | 2.00 | 2.00 | 0.00 | |
| Start 1693.38 hold at 1100.00 MD | | | | | | | | | | |
| 1,200.00 | 16.00 | 349.29 | 1,185.77 | 136.13 | -25.76 | 138.54 | 0.00 | 0.00 | 0.00 | |
| 1,300.00 | 16.00 | 349.29 | 1,281.90 | 163.21 | -30.88 | 166.10 | 0.00 | 0.00 | 0.00 | |
| 1,302.19 | 16.00 | 349.29 | 1,284.00 | 163.80 | -30.99 | 166.71 | 0.00 | 0.00 | 0.00 | |
| GREENRIVER | | | | | | | | | | |
| 1,400.00 | 16.00 | 349.29 | 1,378.02 | 190.29 | -36.00 | 193.67 | 0.00 | 0.00 | 0.00 | |
| 1,500.00 | 16.00 | 349.29 | 1,474.15 | 217.38 | -41.13 | 221.23 | 0.00 | 0.00 | 0.00 | |
| 1,600.00 | 16.00 | 349.29 | 1,570.27 | 244.46 | -46.25 | 248.80 | 0.00 | 0.00 | 0.00 | |
| 1,626.76 | 16.00 | 349.29 | 1,596.00 | 251.71 | -47.62 | 256.17 | 0.00 | 0.00 | 0.00 | |
| BIRDSNEST | | | | | | | | | | |
| 1,700.00 | 16.00 | 349.29 | 1,666.40 | 271.54 | -51.38 | 276.36 | 0.00 | 0.00 | 0.00 | |
| 1,800.00 | 16.00 | 349.29 | 1,762.53 | 298.63 | -56.50 | 303.92 | 0.00 | 0.00 | 0.00 | |
| 1,900.00 | 16.00 | 349.29 | 1,858.65 | 325.71 | -61.62 | 331.49 | 0.00 | 0.00 | 0.00 | |
| 2,000.00 | 16.00 | 349.29 | 1,954.78 | 352.79 | -66.75 | 359.05 | 0.00 | 0.00 | 0.00 | |
| 2,023.12 | 16.00 | 349.29 | 1,977.00 | 359.05 | -67.93 | 365.42 | 0.00 | 0.00 | 0.00 | |
| MAHOGANY | | | | | | | | | | |
| 2,100.00 | 16.00 | 349.29 | 2,050.90 | 379.88 | -71.87 | 386.61 | 0.00 | 0.00 | 0.00 | |
| 2,200.00 | 16.00 | 349.29 | 2,147.03 | 406.96 | -77.00 | 414.18 | 0.00 | 0.00 | 0.00 | |
| 2,300.00 | 16.00 | 349.29 | 2,243.16 | 434.04 | -82.12 | 441.74 | 0.00 | 0.00 | 0.00 | |
| 2,400.00 | 16.00 | 349.29 | 2,339.28 | 461.12 | -87.25 | 469.31 | 0.00 | 0.00 | 0.00 | |
| 2,491.25 | 16.00 | 349.29 | 2,427.00 | 485.84 | -91.92 | 494.46 | 0.00 | 0.00 | 0.00 | |
| 8 5/8" | | | | | | | | | | |
| 2,500.00 | 16.00 | 349.29 | 2,435.41 | 488.21 | -92.37 | 496.87 | 0.00 | 0.00 | 0.00 | |
| 2,600.00 | 16.00 | 349.29 | 2,531.54 | 515.29 | -97.49 | 524.43 | 0.00 | 0.00 | 0.00 | |
| 2,700.00 | 16.00 | 349.29 | 2,627.66 | 542.37 | -102.62 | 552.00 | 0.00 | 0.00 | 0.00 | |
| 2,793.38 | 16.00 | 349.29 | 2,717.43 | 567.67 | -107.40 | 577.74 | 0.00 | 0.00 | 0.00 | |
| Start Drop -2.00 | | | | | | | | | | |
| 2,800.00 | 15.87 | 349.29 | 2,723.79 | 569.45 | -107.74 | 579.55 | 2.00 | -2.00 | 0.00 | |
| 2,900.00 | 13.87 | 349.29 | 2,820.44 | 594.66 | -112.51 | 605.21 | 2.00 | -2.00 | 0.00 | |
| 3,000.00 | 11.87 | 349.29 | 2,917.92 | 616.54 | -116.65 | 627.48 | 2.00 | -2.00 | 0.00 | |
| 3,100.00 | 9.87 | 349.29 | 3,016.12 | 635.07 | -120.15 | 646.33 | 2.00 | -2.00 | 0.00 | |
| 3,200.00 | 7.87 | 349.29 | 3,114.92 | 650.21 | -123.02 | 661.75 | 2.00 | -2.00 | 0.00 | |
| 3,300.00 | 5.87 | 349.29 | 3,214.20 | 661.96 | -125.24 | 673.70 | 2.00 | -2.00 | 0.00 | |
| 3,400.00 | 3.87 | 349.29 | 3,313.83 | 670.30 | -126.82 | 682.19 | 2.00 | -2.00 | 0.00 | |
| 3,500.00 | 1.87 | 349.29 | 3,413.70 | 675.21 | -127.75 | 687.19 | 2.00 | -2.00 | 0.00 | |
| 3,593.38 | 0.00 | 0.00 | 3,507.07 | 676.71 | -128.03 | 688.71 | 2.00 | -2.00 | 0.00 | |
| Start 6718.93 hold at 3593.38 MD | | | | | | | | | | |
| 3,600.00 | 0.00 | 0.00 | 3,513.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 | |
| 3,700.00 | 0.00 | 0.00 | 3,613.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 | |
| 3,800.00 | 0.00 | 0.00 | 3,713.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 | |



| | | | |
|------------------|------------------------------------|-------------------------------------|--------------------------------------|
| Database: | EDM5000-RobertS-Local | Local Co-ordinate Reference: | Well NBU 922-33K4CS |
| Company: | US ROCKIES REGION PLANNING | TVD Reference: | GL 5067 & KB 4 @ 5071.00ft (ASSUMED) |
| Project: | UTAH - UTM (feet), NAD27, Zone 12N | MD Reference: | GL 5067 & KB 4 @ 5071.00ft (ASSUMED) |
| Site: | NBU 922-33N PAD | North Reference: | True |
| Well: | NBU 922-33K4CS | 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 | 3,813.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 0.00 | 0.00 | 3,913.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 4,100.00 | 0.00 | 0.00 | 4,013.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 4,200.00 | 0.00 | 0.00 | 4,113.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 4,300.00 | 0.00 | 0.00 | 4,213.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 4,400.00 | 0.00 | 0.00 | 4,313.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 4,500.00 | 0.00 | 0.00 | 4,413.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 4,552.31 | 0.00 | 0.00 | 4,466.00 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| WASATCH | | | | | | | | | |
| 4,600.00 | 0.00 | 0.00 | 4,513.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 4,700.00 | 0.00 | 0.00 | 4,613.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 0.00 | 0.00 | 4,713.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 0.00 | 0.00 | 4,813.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 0.00 | 0.00 | 4,913.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 5,100.00 | 0.00 | 0.00 | 5,013.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 0.00 | 0.00 | 5,113.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 5,300.00 | 0.00 | 0.00 | 5,213.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 5,400.00 | 0.00 | 0.00 | 5,313.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 5,500.00 | 0.00 | 0.00 | 5,413.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 5,600.00 | 0.00 | 0.00 | 5,513.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 5,700.00 | 0.00 | 0.00 | 5,613.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 5,800.00 | 0.00 | 0.00 | 5,713.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 5,900.00 | 0.00 | 0.00 | 5,813.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 6,000.00 | 0.00 | 0.00 | 5,913.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 6,100.00 | 0.00 | 0.00 | 6,013.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 6,200.00 | 0.00 | 0.00 | 6,113.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 6,300.00 | 0.00 | 0.00 | 6,213.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 6,400.00 | 0.00 | 0.00 | 6,313.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 6,500.00 | 0.00 | 0.00 | 6,413.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 6,600.00 | 0.00 | 0.00 | 6,513.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 6,700.00 | 0.00 | 0.00 | 6,613.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 6,800.00 | 0.00 | 0.00 | 6,713.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 6,900.00 | 0.00 | 0.00 | 6,813.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 7,000.00 | 0.00 | 0.00 | 6,913.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 7,011.31 | 0.00 | 0.00 | 6,925.00 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| MESAVERDE | | | | | | | | | |
| 7,100.00 | 0.00 | 0.00 | 7,013.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 7,200.00 | 0.00 | 0.00 | 7,113.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 7,300.00 | 0.00 | 0.00 | 7,213.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 7,400.00 | 0.00 | 0.00 | 7,313.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 7,500.00 | 0.00 | 0.00 | 7,413.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 7,600.00 | 0.00 | 0.00 | 7,513.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 7,700.00 | 0.00 | 0.00 | 7,613.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 7,800.00 | 0.00 | 0.00 | 7,713.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 7,900.00 | 0.00 | 0.00 | 7,813.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 8,000.00 | 0.00 | 0.00 | 7,913.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 8,100.00 | 0.00 | 0.00 | 8,013.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 8,200.00 | 0.00 | 0.00 | 8,113.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 8,300.00 | 0.00 | 0.00 | 8,213.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 8,400.00 | 0.00 | 0.00 | 8,313.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 8,500.00 | 0.00 | 0.00 | 8,413.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 8,600.00 | 0.00 | 0.00 | 8,513.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 8,700.00 | 0.00 | 0.00 | 8,613.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 8,800.00 | 0.00 | 0.00 | 8,713.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |



| | | | |
|------------------|------------------------------------|-------------------------------------|--------------------------------------|
| Database: | EDM5000-RobertS-Local | Local Co-ordinate Reference: | Well NBU 922-33K4CS |
| Company: | US ROCKIES REGION PLANNING | TVD Reference: | GL 5067 & KB 4 @ 5071.00ft (ASSUMED) |
| Project: | UTAH - UTM (feet), NAD27, Zone 12N | MD Reference: | GL 5067 & KB 4 @ 5071.00ft (ASSUMED) |
| Site: | NBU 922-33N PAD | North Reference: | True |
| Well: | NBU 922-33K4CS | 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 | 8,813.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 9,000.00 | 0.00 | 0.00 | 8,913.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 9,100.00 | 0.00 | 0.00 | 9,013.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 9,200.00 | 0.00 | 0.00 | 9,113.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 9,208.31 | 0.00 | 0.00 | 9,122.00 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| SEGO - SEGO_NBU 922-33K4CS | | | | | | | | | |
| 9,270.31 | 0.00 | 0.00 | 9,184.00 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| CASTLEGATE | | | | | | | | | |
| 9,300.00 | 0.00 | 0.00 | 9,213.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 9,400.00 | 0.00 | 0.00 | 9,313.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 9,500.00 | 0.00 | 0.00 | 9,413.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 9,600.00 | 0.00 | 0.00 | 9,513.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 9,700.00 | 0.00 | 0.00 | 9,613.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 9,712.31 | 0.00 | 0.00 | 9,626.00 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| BLACKHAWK | | | | | | | | | |
| 9,800.00 | 0.00 | 0.00 | 9,713.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 9,900.00 | 0.00 | 0.00 | 9,813.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 10,000.00 | 0.00 | 0.00 | 9,913.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 10,100.00 | 0.00 | 0.00 | 10,013.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 10,200.00 | 0.00 | 0.00 | 10,113.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 10,300.00 | 0.00 | 0.00 | 10,213.69 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| 10,312.31 | 0.00 | 0.00 | 10,226.00 | 676.71 | -128.03 | 688.71 | 0.00 | 0.00 | 0.00 |
| TD at 10312.31 - PBHL_NBU 922-33K4CS | | | | | | | | | |

| Design Targets | | | | | | | | | |
|--|---------------|--------------|-----------|------------|------------|-----------------|----------------|-----------|-------------|
| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| SEGO_NBU 922-33K4C - hit/miss target - Shape - plan hits target center - Circle (radius 25.00) | 0.00 | 0.00 | 9,122.00 | 676.71 | -128.03 | 14,526,046.67 | 2,075,678.67 | 39.989588 | -109.446086 |
| PBHL_NBU 922-33K4C: - plan hits target center - Circle (radius 100.00) | 0.00 | 0.00 | 10,226.00 | 676.71 | -128.03 | 14,526,046.67 | 2,075,678.67 | 39.989588 | -109.446086 |

| Casing Points | | | | | |
|---------------------|---------------------|--------|----------------------|--------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Name | Casing Diameter (in) | Hole Diameter (in) | |
| 2,491.25 | 2,427.00 | 8 5/8" | 8.625 | 11.000 | |



| | | | |
|------------------|------------------------------------|-------------------------------------|--------------------------------------|
| Database: | EDM5000-RobertS-Local | Local Co-ordinate Reference: | Well NBU 922-33K4CS |
| Company: | US ROCKIES REGION PLANNING | TVD Reference: | GL 5067 & KB 4 @ 5071.00ft (ASSUMED) |
| Project: | UTAH - UTM (feet), NAD27, Zone 12N | MD Reference: | GL 5067 & KB 4 @ 5071.00ft (ASSUMED) |
| Site: | NBU 922-33N PAD | North Reference: | True |
| Well: | NBU 922-33K4CS | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | PLAN #1 PRELIMINARY | | |

| Formations | | | | | | |
|---------------------|---------------------|------------|-----------|---------|-------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) | |
| 1,302.19 | 1,284.00 | GREENRIVER | | | | |
| 1,626.76 | 1,596.00 | BIRDSNEST | | | | |
| 2,023.12 | 1,977.00 | MAHOGANY | | | | |
| 4,552.31 | 4,466.00 | WASATCH | | | | |
| 7,011.31 | 6,925.00 | MESAVERDE | | | | |
| 9,208.31 | 9,122.00 | SEGO | | | | |
| 9,270.31 | 9,184.00 | CASTLEGATE | | | | |
| 9,712.31 | 9,626.00 | BLACKHAWK | | | | |

| Plan Annotations | | | | | |
|---------------------|---------------------|-------------------|------------|----------------------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | Comment | |
| | | +N/-S (ft) | +E/-W (ft) | | |
| 300.00 | 300.00 | 0.00 | 0.00 | Start Build 2.00 | |
| 1,100.00 | 1,089.64 | 109.04 | -20.63 | Start 1693.38 hold at 1100.00 MD | |
| 2,793.38 | 2,717.43 | 567.67 | -107.40 | Start Drop -2.00 | |
| 3,593.38 | 3,507.07 | 676.71 | -128.03 | Start 6718.93 hold at 3593.38 MD | |
| 10,312.31 | 10,226.00 | 676.71 | -128.03 | TD at 10312.31 | |

NBU 922-33K4BS/ 922-33K4CS/ 922-33N1BS
 NBU 922-33N4BS/ 922-33N4CS
 Kerr-McGee Oil Gas Onshore, L.P.

Surface Use Plan of Operations
 1 of 5

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

NBU 922-33N PAD

| | | | |
|--------------|-----------------------------|------|-----|
| <u>API #</u> | <u>NBU 922-33K4BS</u> | | |
| | Surface: 894 FSL / 2273 FWL | SESW | Lot |
| | BHL: 1905 FSL / 2143 FWL | NESW | Lot |
| <u>API #</u> | <u>NBU 922-33K4CS</u> | | |
| | Surface: 886 FSL / 2267 FWL | SESW | Lot |
| | BHL: 1563 FSL / 2141 FWL | NESW | Lot |
| <u>API #</u> | <u>NBU 922-33N1BS</u> | | |
| | Surface: 878 FSL / 2261 FWL | SESW | Lot |
| | BHL: 1242 FSL / 2143 FWL | SESW | Lot |
| <u>API #</u> | <u>NBU 922-33N4BS</u> | | |
| | Surface: 862 FSL / 2249 FWL | SESW | Lot |
| | BHL: 507 FSL / 2121 FWL | SESW | Lot |
| <u>API #</u> | <u>NBU 922-33N4CS</u> | | |
| | Surface: 870 FSL / 2255 FWL | SESW | Lot |
| | BHL: 69 FSL / 2125 FWL | SESW | Lot |

This Surface Use Plan of Operations (SUPO) or 13-point plan provides site-specific information for the above-referenced wells.

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.

An on-site meeting was held on August 16-17, 2012. Present were:

- Dave Gordon, Tyler Cox, Aaron Roe and Brian Barnett - BLM;
- Jessi Brunson - USFWS;
- Bill Knapp - ICF Consulting;
- Jacob Dunham - 609 Consulting;
- Mitch Batty - Timberline Engineering & Land Surveying, Inc.; and
- Gina Becker, Charles Chase, Lindsey Frazier, Doyle Holmes, Randy Townley and Casey McKee- Kerr-McGee

A. Existing Roads:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Please refer to Topo B for existing roads.

B. New or Reconstructed Access Roads:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

NBU 922-33K4BS/ 922-33K4CS/ 922-33N1BS
 NBU 922-33N4BS/ 922-33N4CS
 Kerr-McGee Oil Gas Onshore, L.P.

Surface Use Plan of Operations
 2 of 5

The following segments are "on-lease"

No new access road is proposed for this location. Please refer to Topo B.

C. Location of Existing Wells:

Please refer to Topo C for existing wells.

D. Location of Existing and/or Proposed Facilities:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

This pad will expand the existing pad for the NBU 922-33NT and CIGE 152. The NBU 922-33NT is a producing gas well and the CIGE 152 is a plugged and abandoned well, according to Utah Division of Oil, Gas and Mining (UDOGM) records on November 1, 2012. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (Kerr-McGee).

GAS GATHERING

Please refer to Exhibit A and Topo D2- Pad and Pipeline Detail.

The total gas gathering pipeline distance from the meter to the tie in point is $\pm 425'$ and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

- $\pm 410'$ (0.08 miles) – Section 33 T9S R22E (SE/4 SW/4) – On-lease UTU-01191-A, BLM surface, New 8" buried gas gathering pipeline from the meter to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.
- $\pm 15'$ (0.01 miles) – Section 33 T9S R22E (SE/4 SW/4) – On-lease UTU-01191-A, BLM surface, New 8" buried gas gathering pipeline from the edge of the pad to tie-in to the existing 16" gas pipeline to the south. Please refer to Exhibit A Gas Gathering- Line 11.

LIQUID GATHERING

Please refer to Exhibit B and Topo D2- Pad and Pipeline Detail.

The total liquid gathering pipeline distance from the separator to the tie in point is $\pm 425'$ and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

- $\pm 410'$ (0.08 miles) – Section 33 T9S R22E (SE/4 SW/4) – On-lease UTU-01191-A, BLM surface, New 6" buried liquid gathering pipeline from the separator to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.
- $\pm 15'$ (0.01 miles) – Section 33 T9S R22E (SE/4 SW/4) – On-lease UTU-01191-A, BLM surface, New 6" buried liquid gathering pipeline from the edge of the pad to tie-in to the existing 6" liquid pipeline to the south. Please refer to Exhibit B Liquid Gathering- Line 11.

Pipeline Gathering Construction

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

The Anadarko Completions Transportation System (ACTS) information:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Please refer to Exhibit C for ACTS Lines

E. Location and Types of Water Supply:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

F. Construction Materials:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

G. Methods for Handling Waste:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Materials Management

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

H. Ancillary Facilities:

No additional ancillary facilities are planned for this location.

I. Well Site Layout:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

J. Plans for Surface Reclamation:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Interim Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Final Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Measures Common to Interim and Final Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Weed Control

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

NBU 922-33K4BS/ 922-33K4CS/ 922-33N1BS
NBU 922-33N4BS/ 922-33N4CS
Kerr-McGee Oil Gas Onshore, L.P.

Surface Use Plan of Operations
4 of 5

Monitoring

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

K. Surface/Mineral Ownership:

United States of America
Bureau of Land Management
170 South 500 East
Vernal, UT 84078
(435)781-4400

L. Other Information:

Cultural and Paleontological Resources

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Resource Reports:

A Class I literature survey was completed on September 21, 2012 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC-12-264.

A paleontological reconnaissance survey was completed on August 28, 2012 by SWCA Environmental Consultants. For additional details please refer to report SWCA-UT12-14314-177.

Biological field survey was completed on August 25, 2012 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-838 and 841.

Proposed Action Annual Emissions Tables:

Please refer to the Appendix in the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

NBU 922-33K4BS/ 922-33K4CS/ 922-33N1BS
NBU 922-33N4BS/ 922-33N4CS
Kerr-McGee Oil Gas Onshore, L.P.

Surface Use Plan of Operations
5 of 5

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

Gina T. Becker
Senior Regulatory Analyst
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6086

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 pursuant to 43 CFR 3104 for lease activities is being provided 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.



Gina T. Becker

November 5, 2012
Date

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 12/14/2012

API NO. ASSIGNED: 43047534240000

WELL NAME: NBU 922-33K4CS

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

PHONE NUMBER: 720 929-6086

CONTACT: Gina Becker

PROPOSED LOCATION: SESW 33 090S 220E

Permit Tech Review:

SURFACE: 0886 FSL 2267 FWL

Engineering Review:

BOTTOM: 1563 FSL 2141 FWL

Geology Review:

COUNTY: UINTAH

LATITUDE: 39.98763

LONGITUDE: -109.44620

UTM SURF EASTINGS: 632658.00

NORTHINGS: 4427540.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-01191-A

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 1 - Federal

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: FEDERAL - WYB000291
- 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: NATURAL BUTTES
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: Cause 173-14
- Effective Date: 12/2/1999
- Siting: Suspends General Siting
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 3 - Commingling - ddoucet
 4 - Federal Approval - dmason
 15 - Directional - dmason
 17 - Oil Shale 190-5(b) - dmason



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: NBU 922-33K4CS
API Well Number: 43047534240000
Lease Number: UTU-01191-A
Surface Owner: FEDERAL
Approval Date: 12/27/2012

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 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE 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. 173-14, 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:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

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.

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 at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at <http://oilgas.ogm.utah.gov>

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:



For John Rogers
Associate Director, Oil & Gas

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

NOV 15 2012

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER **BLM**

| | | |
|---|---|---|
| 1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER | | 5. Lease Serial No. UTU01191A |
| 1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone | | 6. If Indian, Allottee or Tribe Name |
| 2. Name of Operator KERR MCGEE OIL & GAS ONSHORE | | 7. If Unit or CA Agreement, Name and No. 891008900A |
| Contact: CARA MAHLER Email: cara.mahler@anadarko.com | | 8. Lease Name and Well No. NBU 922-33K4CS |
| 3a. Address 1368 SOUTH 1200 EAST VERNAL, UT 84078 | 3b. Phone No. (include area code) Ph: 720-929-6029 Fx: 720-929-7029 | 9. API Well No. 43-047-53424 |
| 4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SESW 886FSL 2267FWL 39.987696 N Lat, 109.446313 W Lon At proposed prod. zone NESW 1563FSL 2141FWL 39.989554 N Lat, 109.446770 W Lon | | 10. Field and Pool, or Exploratory NATURAL BUTTES |
| 14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 51 MILES SOUTH OF VERNAL | | 11. Sec., T., R., M., or Blk. and Survey or Area Sec 33 T9S R22E Mer SLB SME: BLM |
| 15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 555 | 16. No. of Acres in Lease 1363.21 | 12. County or Parish UINTAH |
| 18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 687 | 19. Proposed Depth 10312 MD 10226 TVD | 13. State UT |
| 21. Elevations (Show whether DF, KB, RT, GL, etc.) 5067 GL | 22. Approximate date work will start 05/01/2012 | 17. Spacing Unit dedicated to this well |
| 20. BLM/BIA Bond No. on file WYB000291 | | 23. Estimated duration 60-90 DAYS |

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

| | | |
|---|--|---------------------|
| 25. Signature (Electronic Submission) | Name (Printed/Typed) CARA MAHLER Ph: 720-929-6029 | Date 11/15/2012 |
| Title REGULATORY ANALYST | | |
| Approved by (Signature) | Name (Printed/Typed) Jerry Kenczka | Date MAY 29 2013 |
| Title Assistant Field Manager Lands & Mineral Resources | | |
| Office VERNAL FIELD OFFICE | | |

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RECEIVED
JUN 03 2013

Additional Operator Remarks (see next page)

Electronic Submission #160412 verified by the BLM Well Information System
For KERR MCGEE OIL & GAS ONSHORE L, sent to the Vernal
Committed to AFMSS for processing by JOHNETTA MAGEE on 11/17/2012 (13JM0107AE)

DIV. OF OIL, GAS & MINING

NOTICE OF APPROVAL

** BLM REVISED **

PPH3957AE

MOS 7/24/13



**UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE**

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Kerr McGee Oil & Gas Onshore, LP
Well No: NBU 922-33K4CS
API No: 43-047-53424

Location: SESW, Sec. 33, T9S, R22E
Lease No: UTU-01191A
Agreement: Natural Butte

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

| | | |
|---|---|--|
| Location Construction (Notify Environmental Scientist) | - | Forty-Eight (48) hours prior to construction of location and access roads. |
| Location Completion (Notify Environmental Scientist) | - | Prior to moving on the drilling rig. |
| Spud Notice (Notify Petroleum Engineer) | - | Twenty-Four (24) hours prior to spudding the well. |
| Casing String & Cementing (Notify Supv. Petroleum Tech.) | - | Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm_ut_vn_opreport@blm.gov |
| BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.) | - | Twenty-Four (24) hours prior to initiating pressure tests. |
| First Production Notice (Notify Petroleum Engineer) | - | Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days. |

**SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.
- Mitigation measures can be found in Appendix B, Table B-2, of the GNB ROD (BLM 2012b) under the following sections of the table:
 - Air Quality
 - Soils
 - Vegetation: *Sclerocactus wetlandicus*
 - Wildlife: Colorado River Fish
- All vehicles and equipment shall be cleaned either through power-washing, or other approved method, if the vehicles or equipment were previously operated outside the Uinta Basin, to prevent weed seed introduction.
- All disturbance areas shall be monitored for noxious weeds annually, for a minimum of three growing seasons following completion of project or until desirable vegetation is established
- Noxious and invasive weeds will be controlled throughout the area of project disturbance.
- Noxious weeds will be inventoried and reported to BLM in the annual reclamation report. Where an integrated pest management program is applicable, coordination has been undertaken with the state and local management program (if existing). A copy of the pest management plan will be submitted for each project.
- A pesticide use permit (PUP) will be obtained for the project, if applicable.
- Construction and development activities for Well Pads 922-33M, 922-33N, and 922-33E will be prohibited from 3/1 through 8/15, pending the results of a preconstruction nest occupancy survey for Red-Tailed Hawk Nest (BLM 2012b; BLM 2008a).
- Construction and development activities for Well Pads 922-33M, 922-33N, and 922-33E will be prohibited from 4/1 through 8/31, pending the results of a preconstruction nest occupancy survey for Prairie Falcon Nest (BLM 2012b; BLM 2008a).
- Damage to livestock and livestock facilities would be reported as quickly as possible to the BLM and affected livestock operators. Operators would develop and employ prevention measures to

avoid damaging fences, gates, and cattle guards, including upgrading cattle guard gate widths and load-bearing requirements and fencing all open pits and cellars.

If partial or complete removal of a fence cannot be avoided, the fence would be braced and tied off per the BLM guidance. Where the fence is crossed by a road, the fence would be braced and a cattle guard and gate installed per BLM guidance.

**DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

SITE SPECIFIC DOWNHOLE COAs:

- Cement for the 4.5 inch casing shall be brought up to a minimum of 200 feet above the surface casing shoe.
- A CBL shall be run from TD to TOC in the Production Casing.
- Variances shall be granted as requested in Section 9 of the Drilling Program of the SOP.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in CD (compact disc) format to the Vernal BLM Field Office. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location ($\frac{1}{4}$ Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs,

core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

| | |
|--|---|
| 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: UTU-01191-A |
| 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: NATURAL BUTTES |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: 0886 FSL 2267 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 33 Township: 09.0S Range: 22.0E Meridian: S | 8. WELL NAME and NUMBER: NBU 922-33K4CS |
| PHONE NUMBER: 720 929-6511 | 9. API NUMBER: 43047534240000 |
| 9. FIELD and POOL or WILDCAT: NATURAL BUTTES | COUNTY: UINTAH |
| | STATE: UTAH |

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

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|--|--|---|---|
| <input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 12/27/2013 | <input type="checkbox"/> ACIDIZE | <input type="checkbox"/> ALTER CASING | <input type="checkbox"/> CASING REPAIR |
| <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS | <input type="checkbox"/> CHANGE TUBING | <input type="checkbox"/> CHANGE WELL NAME |
| <input type="checkbox"/> SPUD REPORT Date of Spud: | <input type="checkbox"/> CHANGE WELL STATUS | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> CONVERT WELL TYPE |
| <input type="checkbox"/> DRILLING REPORT Report Date: | <input type="checkbox"/> DEEPEN | <input type="checkbox"/> FRACTURE TREAT | <input type="checkbox"/> NEW CONSTRUCTION |
| | <input type="checkbox"/> OPERATOR CHANGE | <input type="checkbox"/> PLUG AND ABANDON | <input type="checkbox"/> PLUG BACK |
| | <input type="checkbox"/> PRODUCTION START OR RESUME | <input type="checkbox"/> RECLAMATION OF WELL SITE | <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION |
| | <input type="checkbox"/> REPERFORATE CURRENT FORMATION | <input type="checkbox"/> SIDETRACK TO REPAIR WELL | <input type="checkbox"/> TEMPORARY ABANDON |
| | <input type="checkbox"/> TUBING REPAIR | <input type="checkbox"/> VENT OR FLARE | <input type="checkbox"/> WATER DISPOSAL |
| | <input type="checkbox"/> WATER SHUTOFF | <input type="checkbox"/> SI TA STATUS EXTENSION | <input checked="" type="checkbox"/> APD EXTENSION |
| | <input type="checkbox"/> WILDCAT WELL DETERMINATION | <input type="checkbox"/> OTHER | OTHER: <input style="width: 100px;" type="text"/> |

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

Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.

Approved by the Utah Division of Oil, Gas and Mining
Date: October 24, 2013
By:

| | | |
|---|-------------------------------------|---|
| NAME (PLEASE PRINT) Teena Paulo | PHONE NUMBER 720 929-6236 | TITLE Staff Regulatory Specialist |
| SIGNATURE N/A | DATE 10/18/2013 | |



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047534240000

API: 43047534240000

Well Name: NBU 922-33K4CS

Location: 0886 FSL 2267 FWL QTR SESW SEC 33 TWNP 090S RNG 220E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 12/27/2012

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? Yes No
- Has the approved source of water for drilling changed? Yes No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No
- Is bonding still in place, which covers this proposed well? Yes No

Signature: Teena Paulo

Date: 10/18/2013

Title: Staff Regulatory Specialist Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

| | |
|--|---|
| 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: UTU-01191-A |
| 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: NATURAL BUTTES |
| PHONE NUMBER: 720 929-6100 | 8. WELL NAME and NUMBER: NBU 922-33K4CS |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: 0886 FSL 2267 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 33 Township: 09.0S Range: 22.0E Meridian: S | 9. API NUMBER: 43047534240000 |
| | 9. FIELD and POOL or WILDCAT: NATURAL BUTTES |
| | COUNTY: UINTAH |
| | STATE: UTAH |

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

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|--|--|---|---|
| <input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 11/19/2014 | <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 checked="" type="checkbox"/> APD EXTENSION |
| | <input type="checkbox"/> WILDCAT WELL DETERMINATION | <input type="checkbox"/> OTHER | OTHER: <input style="width: 100px;" type="text"/> |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.

Approved by the
November 25, 2014
Oil, Gas and Mining

Date: _____
By: 

| | | |
|--|-------------------------------------|------------------------------------|
| NAME (PLEASE PRINT) Kay E. Kelly | PHONE NUMBER 720 929 6582 | TITLE Regulatory Analyst |
| SIGNATURE N/A | DATE 11/19/2014 | |



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047534240000

API: 43047534240000

Well Name: NBU 922-33K4CS

Location: 0886 FSL 2267 FWL QTR SESW SEC 33 TWNP 090S RNG 220E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 12/27/2012

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? Yes No
- Has the approved source of water for drilling changed? Yes No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No
- Is bonding still in place, which covers this proposed well? Yes No

Signature: Kay E. Kelly

Date: 11/19/2014

Title: Regulatory Analyst Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

APR 02 2015

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

BLM

5. Lease Serial No.
UTU01191A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
891008900A

8. Well Name and No.
NBU 922-33K4CS

9. API Well No.
43-047-53424-00-X1

10. Field and Pool, or Exploratory
NATURAL BUTTES

11. County or Parish, and State
UINTAH COUNTY, UT

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
KERR MCGEE OIL & GAS ONSHORE

Contact: JOEL MALEFYT
Email: joel.malefyt@anadarko.com

3a. Address
1368 SOUTH 1200 EAST
VERNAL, UT 84078

3b. Phone No. (include area code)
Ph: 720-929-6828
Fx: 720-929-7828

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 33 T9S R22E SESW 886FSL 2267FWL
39.987696 N Lat, 109.446313 W Lon

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
|--|---|---|--|---|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment Notice | <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input checked="" type="checkbox"/> Other |
| | <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon | Change to Original A PD |
| | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal | |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.

APD - 5/29/13
NEPA - 2013-74 EA

CONDITIONS OF APPROVAL ATTACHED

RECEIVED
APR 20 2015
DIV. OF OIL, GAS & MINING

VERNAL FIELD OFFICE

ENG. RHR 4/1/15

GEOL. _____

E.S. _____

PET. _____

RECL. _____

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #297059 verified by the BLM Well Information System
For KERR MCGEE OIL & GAS ONSHORE L, sent to the Vernal
Committed to AFMSS for processing by JOHNETTA MAGEE on 04/06/2015 (15JM1513SE)**

Name (Printed/Typed) JOEL MALEFYT Title REGULATORY ANALYST

Signature (Electronic Submission) Date 04/02/2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By [Signature] Title Assistant Field Manager
Lands & Mineral Resources APR 10 2015

Office VERNAL FIELD OFFICE

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

UDOGM

Revisions to Operator-Submitted EC Data for Sundry Notice #297059

| | Operator Submitted | BLM Revised (AFMSS) |
|----------------|---|---|
| Sundry Type: | OTHER NOI | APDCH NOI |
| Lease: | UTU01191 | UTU01191A |
| Agreement: | UTU63047A | 891008900A (UTU63047A) |
| Operator: | KERR MCGEE OIL & GAS LP PO BOX 173779 DENVER, CO 80202-3779 Ph: 720-929-6000 | KERR MCGEE OIL & GAS ONSHORE L 1368 SOUTH 1200 EAST VERNAL, UT 84078 Ph: 435.789.3995 |
| Admin Contact: | JOEL MALEFYT REGULATORY ANALYST E-Mail: JOEL.MALEFYT@ANADARKO.COM Ph: 720-929-6828 Fx: 720-929-7828 | JOEL MALEFYT REGULATORY ANALYST E-Mail: joel.malefyt@anadarko.com Ph: 720-929-6828 Fx: 720-929-7828 |
| Tech Contact: | JOEL MALEFYT REGULATORY ANALYST E-Mail: JOEL.MALEFYT@ANADARKO.COM Ph: 720-929-6828 Fx: 720-929-7828 | JOEL MALEFYT REGULATORY ANALYST E-Mail: joel.malefyt@anadarko.com Ph: 720-929-6828 Fx: 720-929-7828 |
| Location: | | |
| State: | UT | UT |
| County: | UINTAH | UINTAH |
| Field/Pool: | NATURAL BUTTES | NATURAL BUTTES |
| Well/Facility: | NBU 922-33K4CS Sec 33 T9S R22E | NBU 922-33K4CS Sec 33 T9S R22E SESW 886FSL 2267FWL 39.987696 N Lat, 109.446313 W Lon |

CONDITIONS OF APPROVAL

Kerr McGee Oil and Gas Onshore LP.

Notice of Intent APD Extension

Lease: UTU-01191A
Well: NBU 922-33K4CS
Location: SESW Sec 33-T9S-R22E

An extension for the referenced APD is granted with the following conditions:

1. The extension and APD shall expire on 05/29/2017.
2. No other extension shall be granted.

If you have any other questions concerning this matter, please contact Robin L Hansen of this office at (435) 781-2777

| | |
|---|---------------|
| STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING | FORM 9 |
| 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-01191-A | |
| 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: | |
| 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES | |
| 8. WELL NAME and NUMBER: NBU 922-33K4CS | |
| 9. API NUMBER: 43047534240000 | |
| 9. FIELD and POOL or WILDCAT: NATURAL BUTTES | |
| COUNTY: UINTAH | |
| STATE: UTAH | |

SUNDRY NOTICES AND REPORTS ON WELLS

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

| |
|---|
| 1. TYPE OF WELL Gas Well |
| 2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. |
| 3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 |
| PHONE NUMBER: 720 929-6507 |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: 0886 FSL 2267 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 33 Township: 09.0S Range: 22.0E Meridian: S |

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: 12/4/2015 | <input type="checkbox"/> ACIDIZE | <input type="checkbox"/> ALTER CASING | <input type="checkbox"/> CASING REPAIR |
| <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS | <input type="checkbox"/> CHANGE TUBING | <input type="checkbox"/> CHANGE WELL NAME |
| <input type="checkbox"/> SPUD REPORT Date of Spud: | <input type="checkbox"/> CHANGE WELL STATUS | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> CONVERT WELL TYPE |
| <input type="checkbox"/> DRILLING REPORT Report Date: | <input type="checkbox"/> DEEPEN | <input type="checkbox"/> FRACTURE TREAT | <input type="checkbox"/> NEW CONSTRUCTION |
| | <input type="checkbox"/> OPERATOR CHANGE | <input 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 checked="" type="checkbox"/> APD EXTENSION |
| | <input type="checkbox"/> WILDCAT WELL DETERMINATION | <input type="checkbox"/> OTHER | OTHER: <input style="width: 100px;" type="text"/> |

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

Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.

Approved by the
Utah Director of
Oil, Gas and Mining

Date: _____

By:

| | | |
|---|-------------------------------------|---------------------------------------|
| NAME (PLEASE PRINT) Jennifer Thomas | PHONE NUMBER 720 929-6808 | TITLE Regulatory Specialist |
| SIGNATURE N/A | DATE 12/4/2015 | |



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047534240000

API: 43047534240000

Well Name: NBU 922-33K4CS

Location: 0886 FSL 2267 FWL QTR SESW SEC 33 TWNP 090S RNG 220E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 12/27/2012

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes No

- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes No

- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No

- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? Yes No

- Has the approved source of water for drilling changed? Yes No

- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No

- Is bonding still in place, which covers this proposed well? Yes No

Signature: Jennifer Thomas

Date: 12/4/2015

Title: Regulatory Specialist Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

| | |
|--|---|
| 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: UTU-01191-A |
| 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: NATURAL BUTTES |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: 0886 FSL 2267 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 33 Township: 09.0S Range: 22.0E Meridian: S | 8. WELL NAME and NUMBER: NBU 922-33K4CS |
| PHONE NUMBER: 720 929-6454 | 9. API NUMBER: 43047534240000 |
| 9. FIELD and POOL or WILDCAT: NATURAL BUTTES | COUNTY: UINTAH |
| | STATE: UTAH |

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

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|--|---|--|
| <input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 11/3/2016 | <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 checked="" type="checkbox"/> APD EXTENSION |
| | <input type="checkbox"/> WILDCAT WELL DETERMINATION | <input type="checkbox"/> OTHER | OTHER: <input style="width: 100px;" type="text"/> |

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 Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.

Approved by the
November 08, 2016
Oil, Gas and Mining

Date: _____
By: 

| | | |
|--|-------------------------------------|------------------------------------|
| NAME (PLEASE PRINT) Candice Barber | PHONE NUMBER 435 781-9749 | TITLE HSE Representative |
| SIGNATURE N/A | DATE 11/3/2016 | |



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047534240000

API: 43047534240000

Well Name: NBU 922-33K4CS

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- Is bonding still in place, which covers this proposed well? Yes No

Signature: Candice Barber

Date: 11/3/2016

Title: HSE Representative Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.