

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 922-33P1CS
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	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	657 FSL 372 FEL	SESE	33	9.0 S	22.0 E	S
Top of Uppermost Producing Zone	972 FSL 449 FEL	SESE	33	9.0 S	22.0 E	S
At Total Depth	972 FSL 449 FEL	SESE	33	9.0 S	22.0 E	S

21. COUNTY UINTAH	22. DISTANCE TO NEAREST LEASE LINE (Feet) 351	23. NUMBER OF ACRES IN DRILLING UNIT 1041
24. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 229	25. PROPOSED DEPTH MD: 10109 TVD: 10088	
26. ELEVATION - GROUND LEVEL 4997	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 - 2320	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 - 10109	11.6	HCP-110 LT&C	12.5	Premium Lite High Strength	300	3.38	12.0
							50/50 Poz	1480	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 43047534160000	APPROVAL  Permit Manager	

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

<u>NBU 922-33P1CS</u>		
Surface:	657 FSL / 372 FEL	SESE
BHL:	972 FSL / 449 FEL	SESE

Section 33 T9S R22E

Unitah County, Utah
Mineral Lease: UTU-01191**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	1,132'	
Birds Nest	1,474'	Water
Mahogany	1,868'	Water
Wasatch	4,362'	Gas
Mesaverde	6,766'	Gas
Sego	8,966'	Gas
Castlegate	9,033'	Gas
Blackhawk	9,488'	Gas
TVD =	10,088'	
TD =	10,109'	

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

4. Proposed Casing & Cementing Program:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

5. Drilling Fluids Program:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

6. Evaluation Program:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

7. Abnormal Conditions:**7.a Blackhawk (Part of Mesaverde Group)**

Maximum anticipated bottom hole pressure calculated at 10088' TVD, approximately equals
6,456 psi (0.64 psi/ft = actual bottomhole gradient)

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

Maximum anticipated surface pressure equals approximately 4,223 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 8966' TVD, approximately equals
5,469 psi (0.61 psi/ft = actual bottomhole gradient)

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

Maximum anticipated surface pressure equals approximately 3,520 psi (bottom hole pressure
minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-
(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the 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

CASING PROGRAM

							DESIGN FACTORS		
							LTC	DQX	
	SIZE	INTERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'							
							3,390	1,880	348,000
SURFACE	8-5/8"	0	to 2,320	28.00	IJ-55	LTC	2.32	1.73	6.12
							10,690	8,650	279,000
PRODUCTION	4-1/2"	0	to 5,000	11.60	HCP-110	DQX	1.19	1.32	3.87
	4-1/2"	5,000	to 10,109'	11.60	HCP-110	LTC	1.19	1.32	5.82

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	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
	Option 1		+ 0.25 pps flocele				
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
			+ 2% CaCl + 0.25 pps flocele				
SURFACE		NOTE: If well will circulate water to surface, option 2 will be utilized					
	Option 2						
	LEAD	1,820'	Premium cmt + 16% Gel + 10 pps gilsonite	220	35%	12.00	2.86
			+ 0.25 pps Flocele + 3% salt BWOC + GR 3 pps				
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	3,859'	Premium Lite II +0.25 pps	300	35%	12.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	6,250'	50/50 Poz/G + 10% salt + 2% gel	1,480	35%	14.30	1.31
			+ 0.1% R-3				

*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: _____

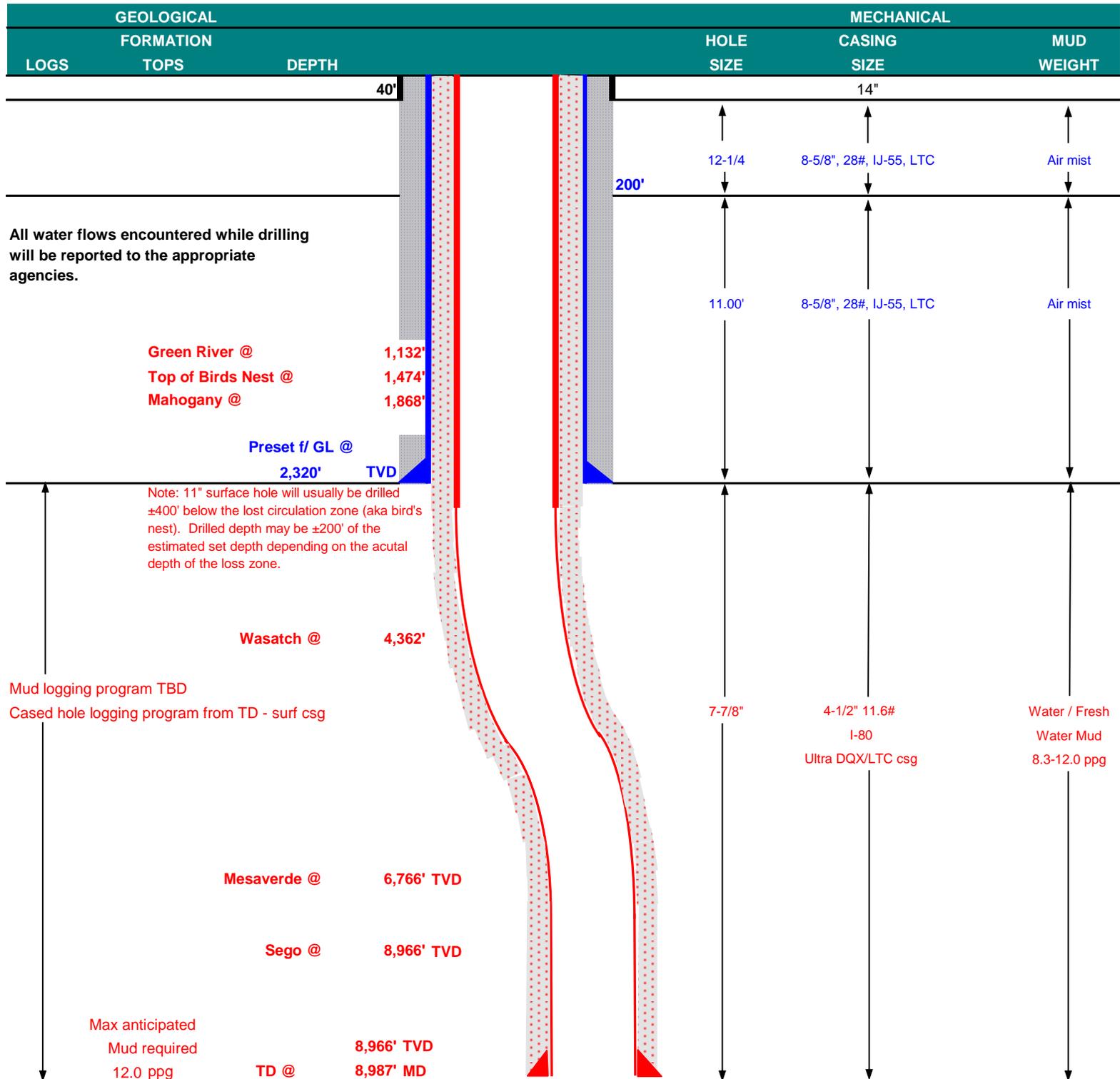
DRILLING SUPERINTENDENT: Kenny Gathings / Lovel Young DATE: _____

NBU 922-33P Pad- Drilling Program Approved by Drilling- 110912.xlsx



KERR-McGEE OIL & GAS ONSHORE LP
Wasatch/Mesaverde Drilling Program

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	November 8, 2012	
WELL NAME	NBU 922-33P1CS		TD	8,966'	TVD 8,987' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah
SURFACE LOCATION	SESE	657 FSL	372 FEL	Sec 33 T 9S R 22E	FINISHED ELEVATION 4,997'
BTM HOLE LOCATION	SESE	972 FSL	449 FEL	Sec 33 T 9S R 22E	
OBJECTIVE ZONE(S)	Wasatch Formation/Mesaverde Group				
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.				





KERR-McGEE OIL & GAS ONSHORE LP
Wasatch/Mesaverde Drilling Program

CASING PROGRAM

						DESIGN FACTORS					
	SIZE	INTERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	LTC	DQX	
									TENSION		
CONDUCTOR	14"	0-40'									
SURFACE	8-5/8"	0	to	2,320	28.00	IJ-55	LTC	3,390	1,880	348,000	N/A
								2.32	1.73	6.12	N/A
PRODUCTION	4-1/2"	0	to	5,000	11.60	I-80	DQX	7,780	6,350		267,035
								1.11	1.13		3.14
								7,780	6,350	223,000	
	4-1/2"	5,000	to	8,987'	11.60	I-80	LTC	1.11	1.13	5.90	

Surface Casing:

(Burst Assumptions: TD = 12.0 ppg) 0.73 psi/ft = frac gradient @ surface shoe
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NOTE: If well will circulate water to surface, option 2 will be utilized							
SURFACE Option 2	LEAD	1,820'	Premium cmt + 16% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOC + GR 3 pps	220	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	3,857'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	300	35%	12.00	3.38
	TAIL	5,130'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,210	35%	14.30	1.31

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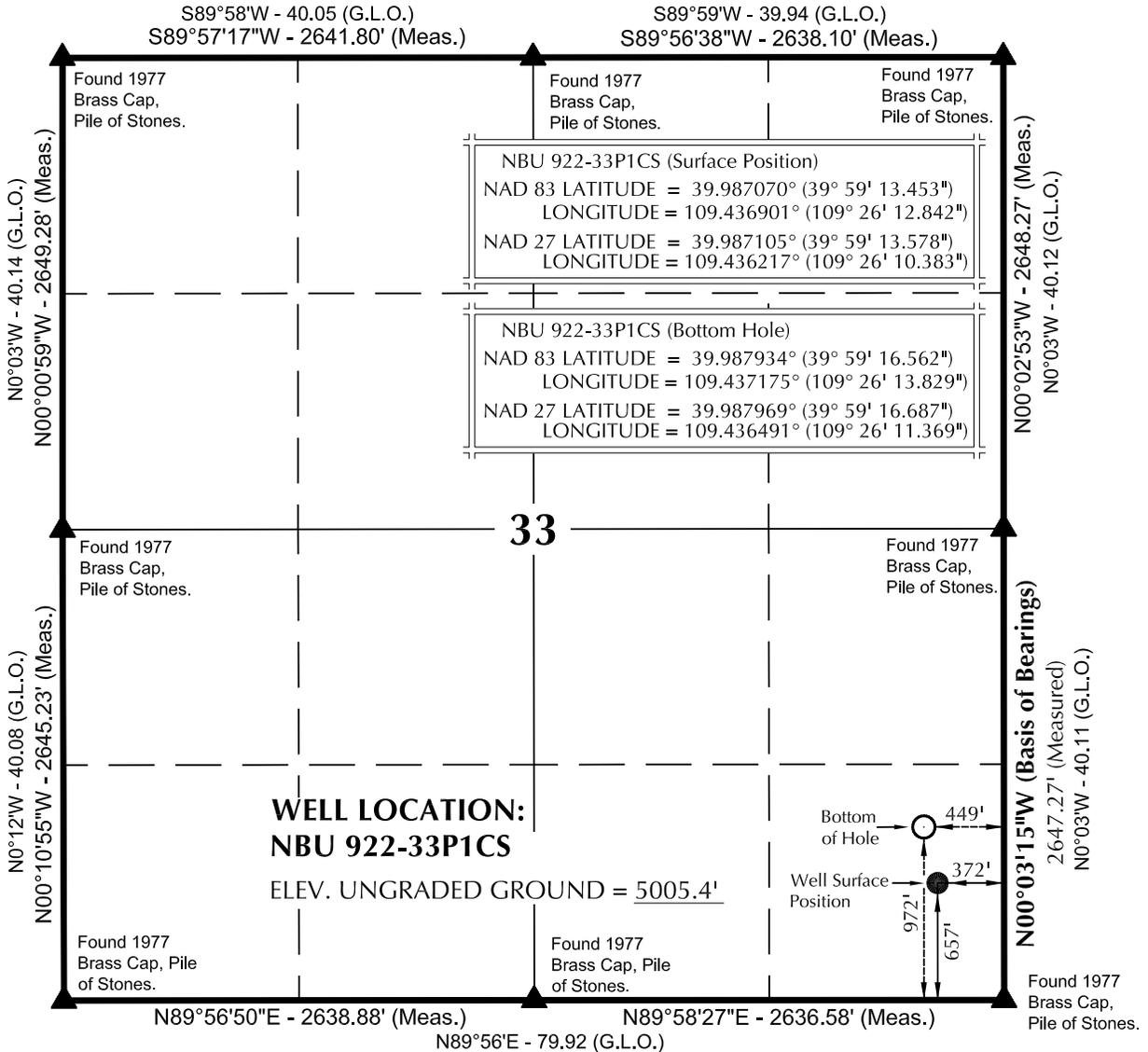
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DRILLING ENGINEER: Nick Spence / Danny Showers / Travis Hansell DATE: _____

DRILLING SUPERINTENDENT: Kenny Gathings / Lovel Young DATE: _____

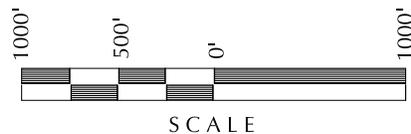
NBU 922-33P Pad- Drilling Program Approved by Drilling- 110912.xlsx

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 N13°43'54"W 323.89' 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.

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

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

WELL PAD: NBU 922-33P

**NBU 922-33P1CS
 WELL PLAT**

**972' FSL, 449' FEL (Bottom Hole)
 SE ¼ SE 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

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

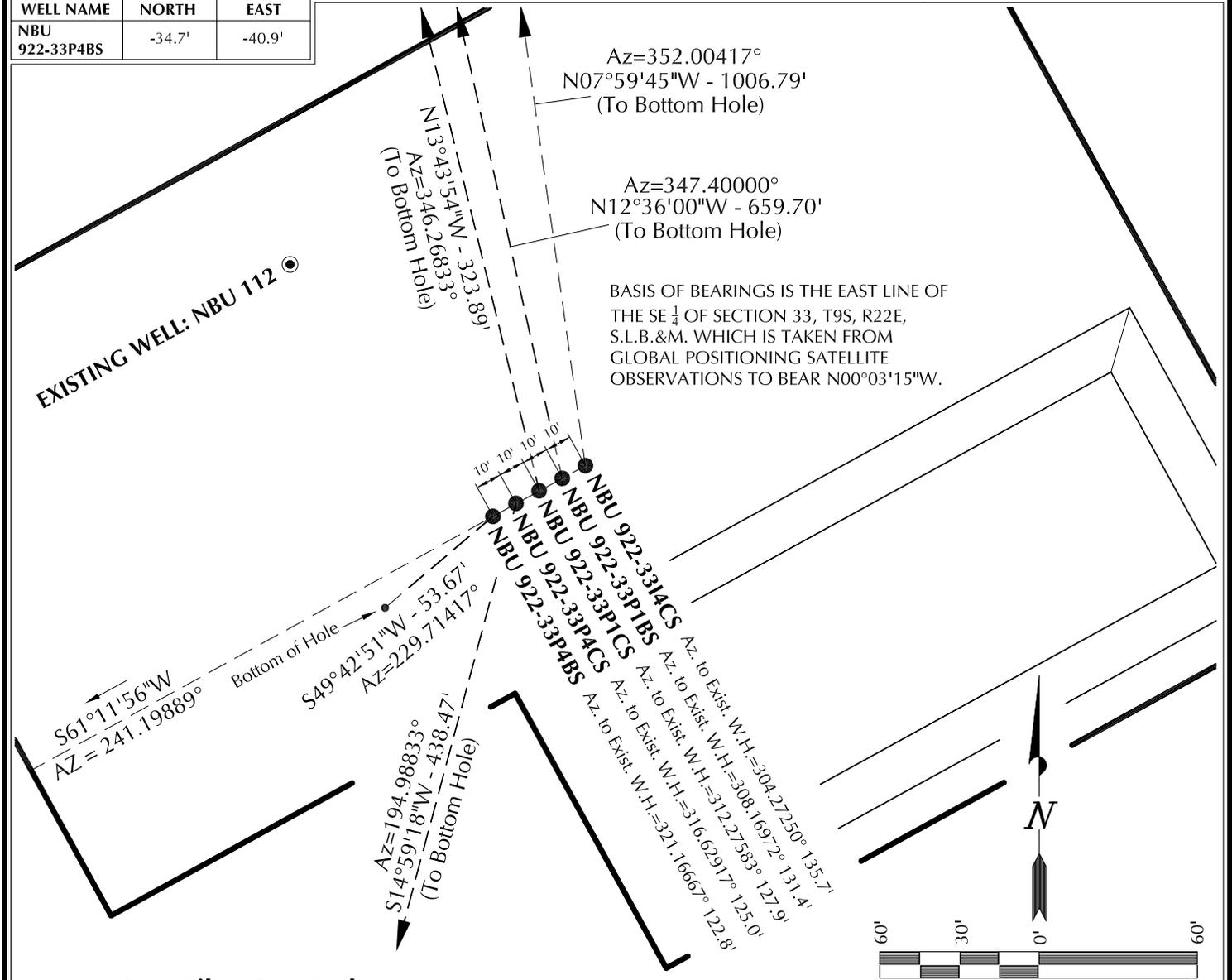
(435) 789-1365

DATE SURVEYED: 5-29-12	SURVEYED BY: A.F.	SHEET NO: 3
DATE DRAWN: 6-11-12	DRAWN BY: T.J.R.	
SCALE: 1" = 1000'		3 OF 17

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
NBU 922-3314CS	39°59'13.548"	109°26'12.617"	39°59'13.673"	109°26'10.158"	667' FSL 355' FEL	39°59'23.399"	109°26'14.412"	39°59'23.524"	109°26'11.953"	1664' FSL 494' FEL
NBU 922-33P1BS	39°59'13.501"	109°26'12.730"	39°59'13.626"	109°26'10.271"	662' FSL 364' FEL	39°59'19.862"	109°26'14.576"	39°59'19.987"	109°26'12.117"	1306' FSL 507' FEL
NBU 922-33P1CS	39°59'13.453"	109°26'12.842"	39°59'13.578"	109°26'10.383"	657' FSL 372' FEL	39°59'16.562"	109°26'13.829"	39°59'16.687"	109°26'11.369"	972' FSL 449' FEL
NBU 922-33P4CS	39°59'13.406"	109°26'12.955"	39°59'13.530"	109°26'10.496"	652' FSL 381' FEL	39°59'09.221"	109°26'14.413"	39°59'09.346"	109°26'11.954"	229' FSL 495' FEL
NBU 922-33P4BS	39°59'13.358"	109°26'13.068"	39°59'13.483"	109°26'10.609"	648' FSL 390' FEL	39°59'13.015"	109°26'13.594"	39°59'13.140"	109°26'11.135"	613' FSL 431' FEL
NBU 112	39°59'14.304"	109°26'14.057"	39°59'14.428"	109°26'11.598"	743' FSL 467' FEL					

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 922-3314CS	997.0'	-140.0'	NBU 922-33P1BS	643.8'	-143.9'	NBU 922-33P1CS	314.6'	-76.9'	NBU 922-33P4CS	-423.5'	-113.4'



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

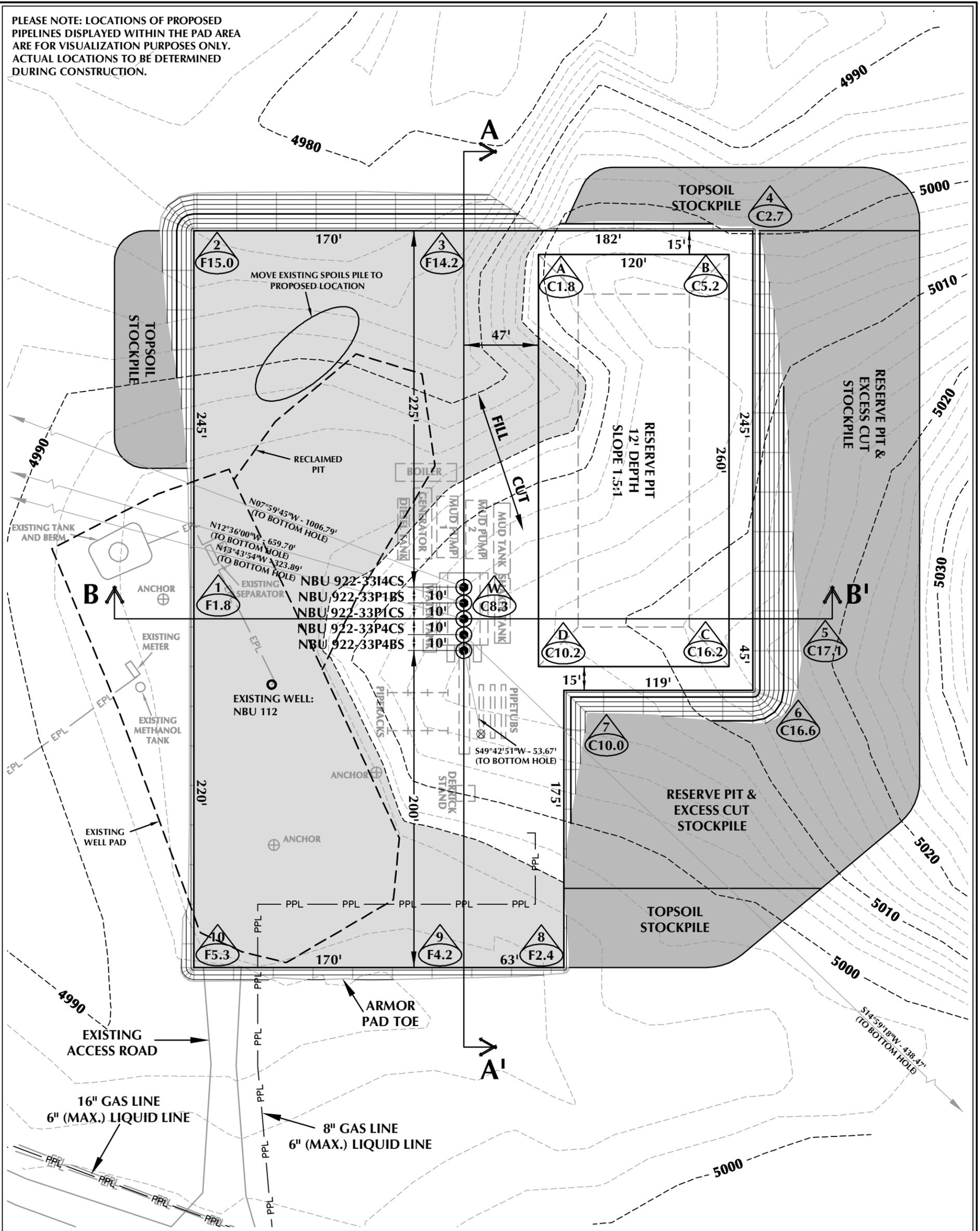
WELL PAD - NBU 922-33P
WELL PAD INTERFERENCE PLAT
WELLS - NBU 922-3314CS,
NBU 922-33P1BS, NBU 922-33P1CS,
NBU 922-33P4CS & NBU 922-33P4BS
LOCATED IN SECTION 33, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH.

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

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

DATE SURVEYED: 5-29-12	SURVEYED BY: A.F.	SHEET NO: 6
DATE DRAWN: 6-11-12	DRAWN BY: T.J.R.	
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 922-33P DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5005.4'
 FINISHED GRADE ELEVATION = 4997.1'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1
 TOTAL WELL PAD AREA = 3.74 ACRES
 TOTAL DISTURBANCE AREA = 5.28 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00

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

WELL PAD - NBU 922-33P
WELL PAD - LOCATION LAYOUT
 NBU 922-33I4CS,
 NBU 922-33P1BS, NBU 922-33P1CS,
 NBU 922-33P4CS & NBU 922-33P4BS
 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 = 18,022 C.Y.
 TOTAL FILL FOR WELL PAD = 17,006 C.Y.
 TOPSOIL @ 6" DEPTH = 2,530 C.Y.
 EXCESS MATERIAL = 1,016 C.Y.

RESERVE PIT QUANTITIES

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

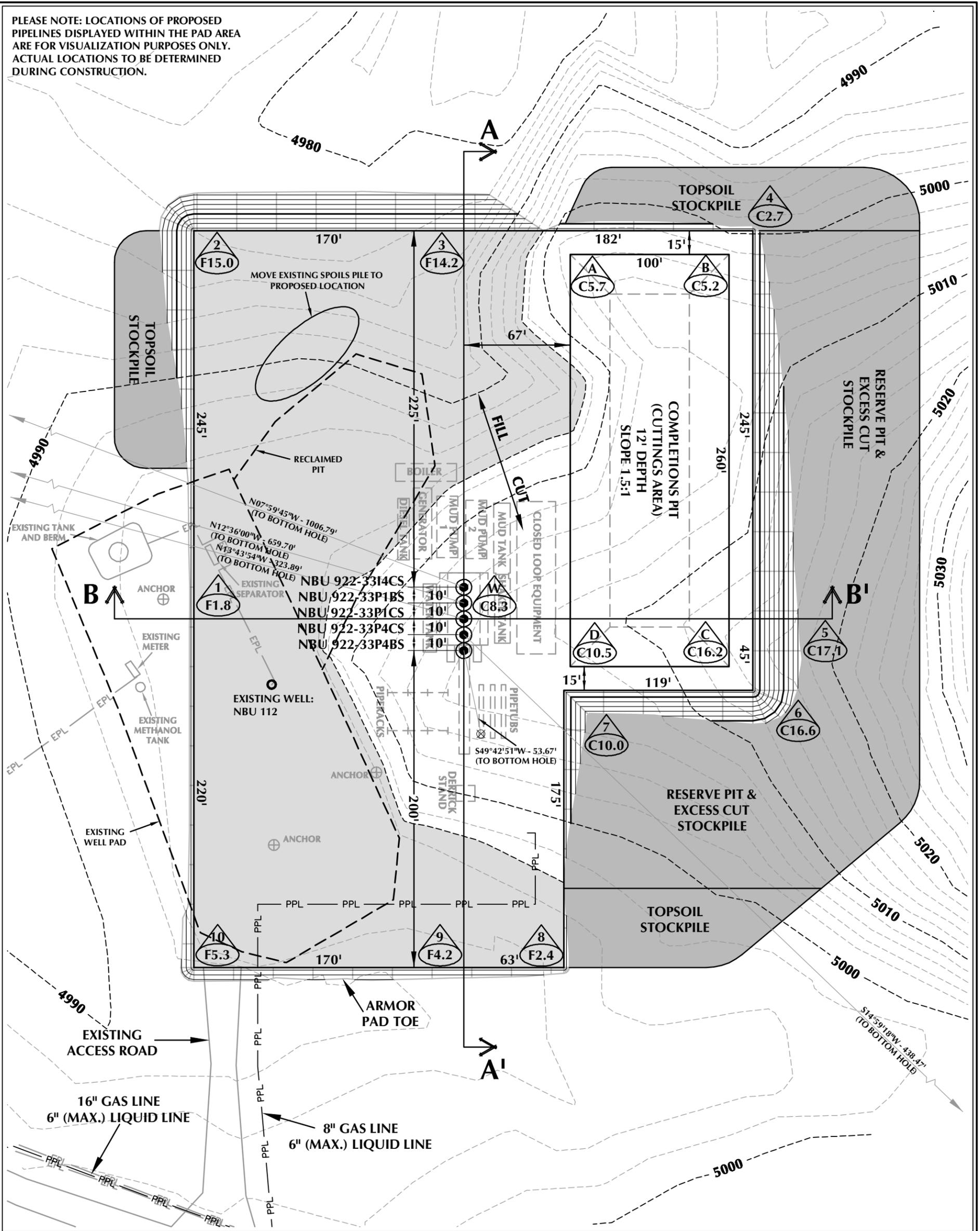


HORIZONTAL 0 30' 60' 1" = 60'
 2' CONTOURS

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

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

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 922-33P (CLOSED LOOP) DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5005.4'
 FINISHED GRADE ELEVATION = 4997.1'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1
 TOTAL WELL PAD AREA = 3.74 ACRES
 TOTAL DISTURBANCE AREA = 5.28 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00

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

WELL PAD - NBU 922-33P
 WELL PAD - LOCATION LAYOUT
 NBU 922-33I4CS,
 NBU 922-33P1BS, NBU 922-33P1CS,
 NBU 922-33P4CS & NBU 922-33P4BS
 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 = 18,022 C.Y.
 TOTAL FILL FOR WELL PAD = 17,006 C.Y.
 TOPSOIL @ 6" DEPTH = 2,530 C.Y.
 EXCESS MATERIAL = 1,016 C.Y.

COMPLETIONS PIT QUANTITIES

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

WELL PAD LEGEND

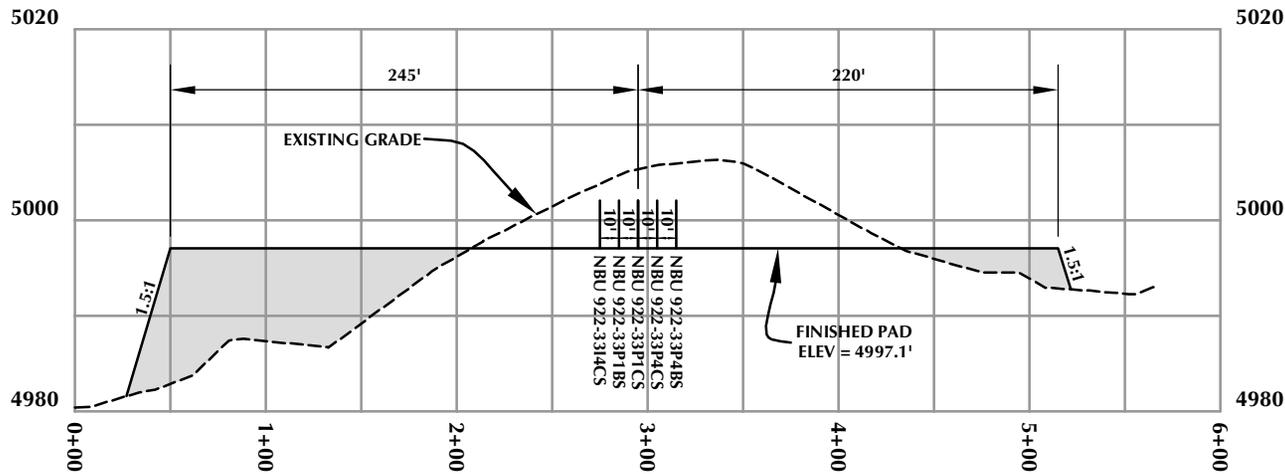
- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PROPOSED PIPELINE
- EXISTING PIPELINE



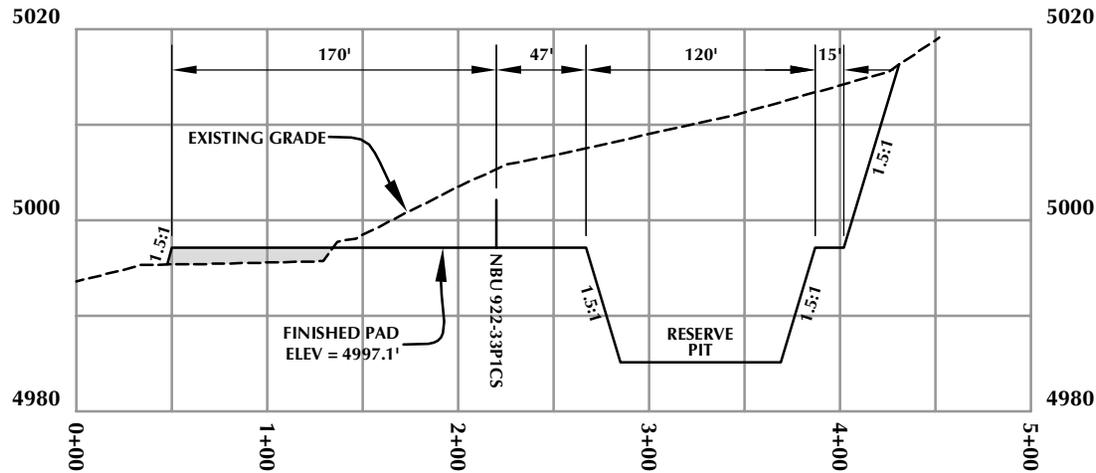
HORIZONTAL 0 30' 60' 1" = 60'
 2' CONTOURS

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

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



CROSS SECTION A-A'



CROSS SECTION B-B'

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

WELL PAD - NBU 922-33P

WELL PAD - CROSS SECTIONS
NBU 922-33I4CS,

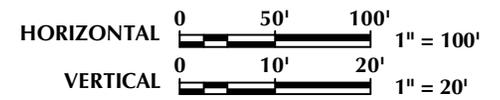
NBU 922-33P1BS, NBU 922-33P1CS,
NBU 922-33P4CS & NBU 922-33P4BS
LOCATED IN SECTION 33, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH



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

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

(435) 789-1365



Scale: 1"=100'

Date: 6/21/12

SHEET NO:

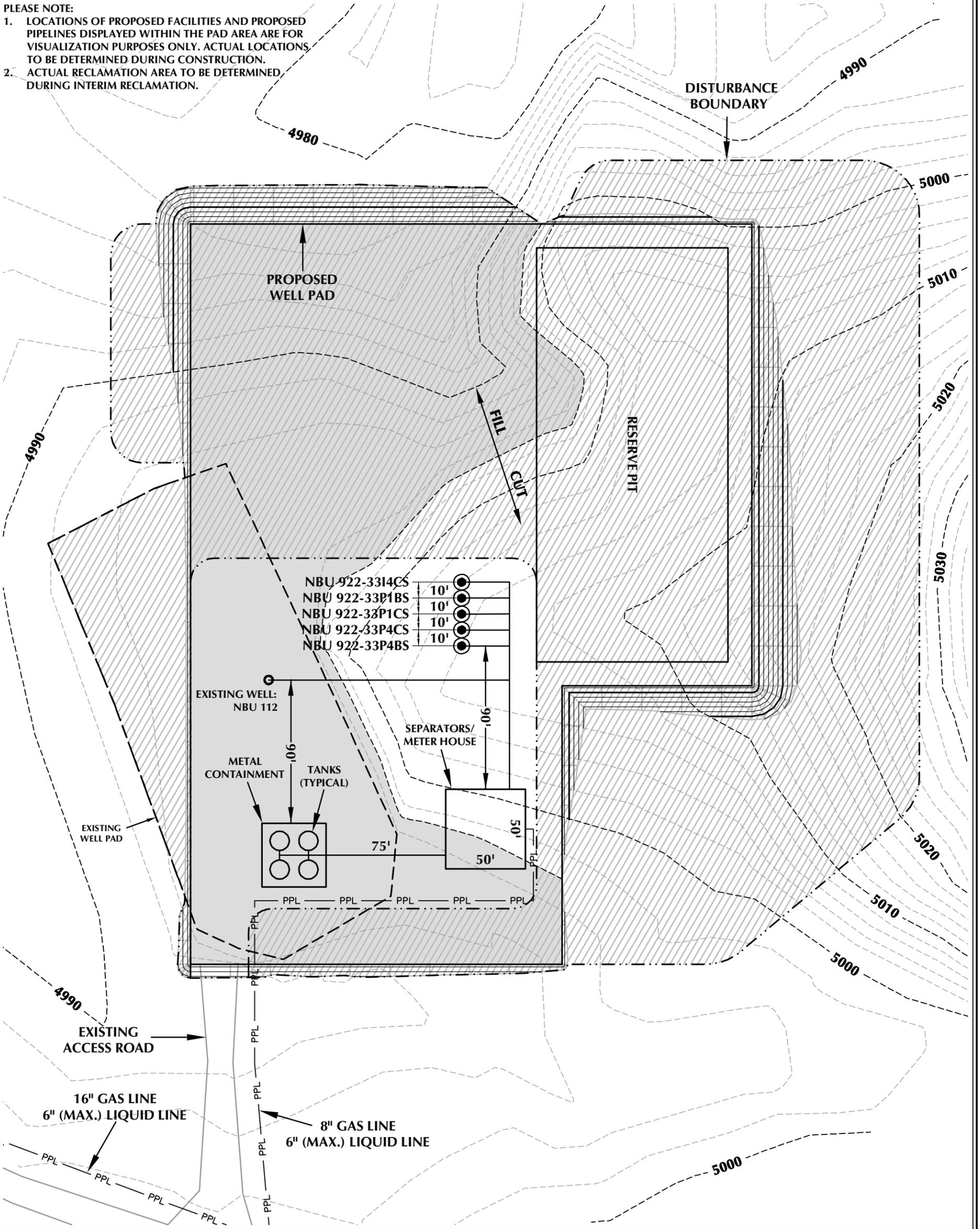
REVISED:

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 922-33P DESIGN SUMMARY

TOTAL DISTURBANCE AREA = 5.54 ACRES (INCLUDING EXISTING)
 RECLAMATION AREA = 4.41 ACRES
 TOTAL WELL PAD AREA AFTER RECLAMATION = 1.13 ACRES

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



HORIZONTAL 1" = 60'
 2' CONTOURS

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

WELL PAD - NBU 922-33P

WELL PAD - RECLAMATION LAYOUT
 NBU 922-3314CS,
 NBU 922-33P1BS, NBU 922-33P1CS,
 NBU 922-33P4CS & NBU 922-33P4BS
 LOCATED IN SECTION 33, T9S, R22E,
 S.L.B.&M., UINTAH COUNTY, UTAH



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

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

(435) 789-1365

SCALE: 1"=60'

DATE: 7/5/12

SHEET NO:

REVISED:

APF
 8/23/12

9

9 OF 17

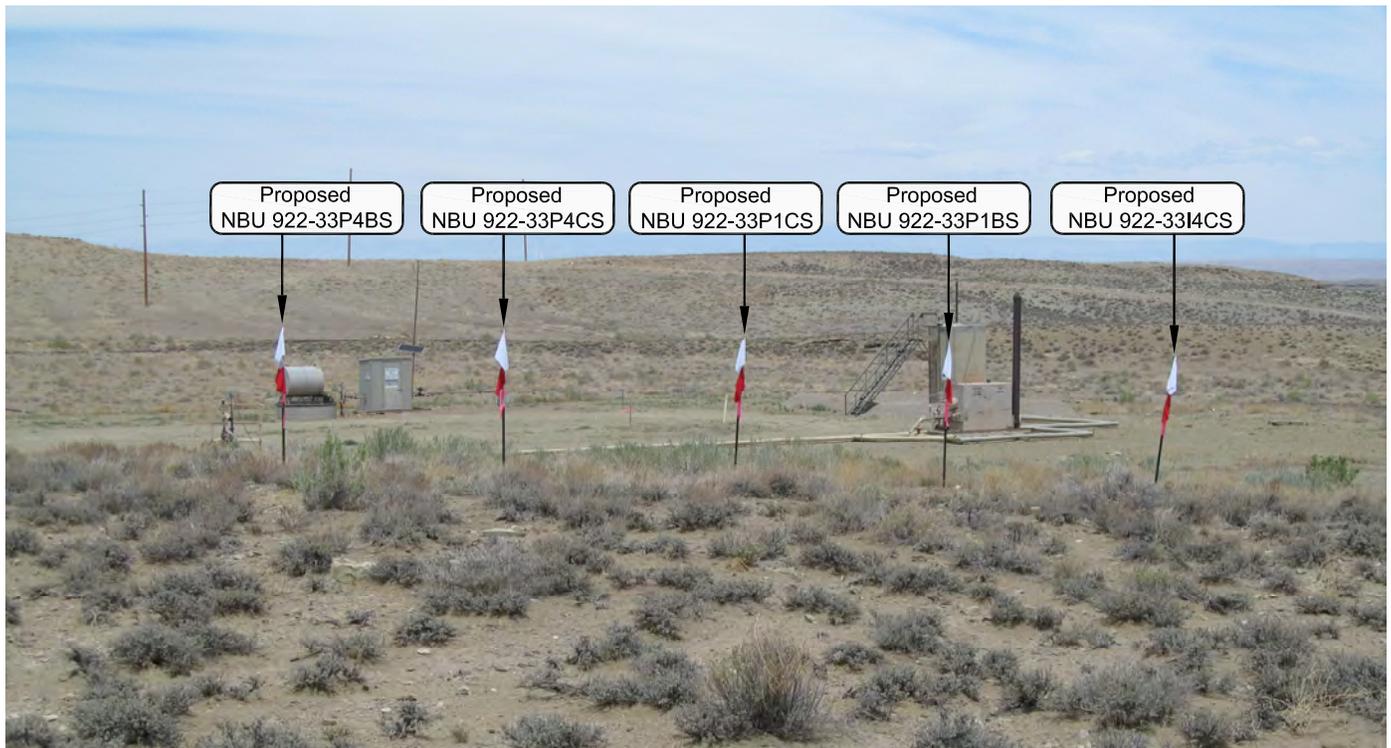


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: NORTHERLY



PHOTO VIEW: FROM EXISTING ACCESS ROAD

CAMERA ANGLE: NORTHEASTERLY

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

WELL PAD - NBU 922-33P

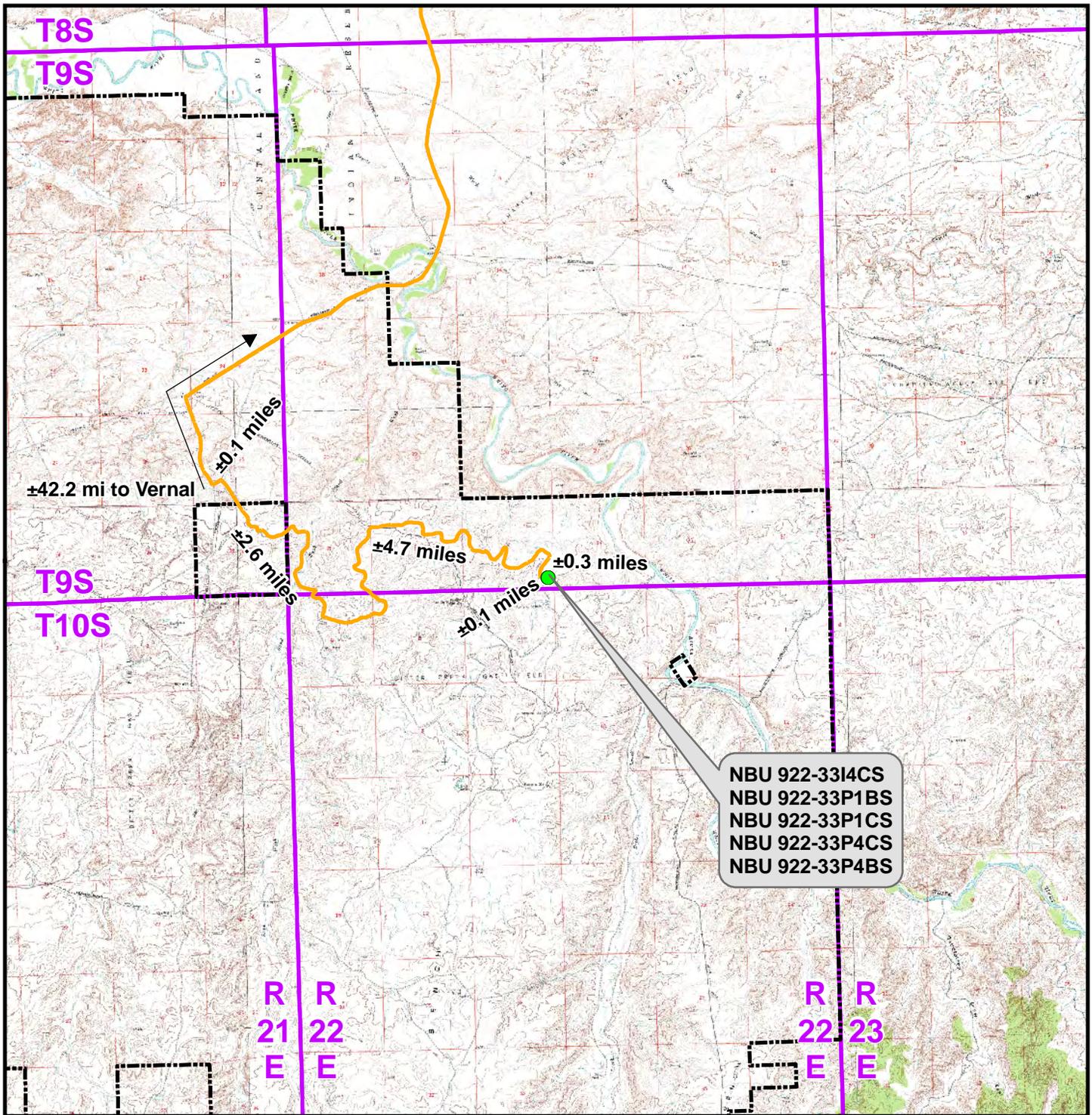
LOCATION PHOTOS
 NBU 922-33I4CS,
 NBU 922-33P1BS, NBU 922-33P1CS,
 NBU 922-33P4CS & NBU 922-33P4BS
 LOCATED IN SECTION 33, T9S, R22E,
 S.L.B.&M., Uintah County, Utah.



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 Fax 307-674-0182

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

DATE PHOTOS TAKEN: 5-29-12	PHOTOS TAKEN BY: A.F.	SHEET NO: 10
DATE DRAWN: 6-11-12	DRAWN BY: T.J.R.	
Date Last Revised:		10 OF 17



File: K:\ANADARKO\2012\2012_14_NBU_FOCUS_922-33\GIS\Maps_ABCDENBU_922-33P\NBU_922-33P_A.mxd, 6/22/2012 12:55:11 PM

Legend

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

Distance From Well Pad - NBU 922-33P To Unit Boundary: ±4,627ft

WELL PAD - NBU 922-33P

TOPO A
 NBU 922-33I4CS,
 NBU 922-33P1BS, NBU 922-33P1CS,
 NBU 922-33P4CS & NBU 922-33P4BS
 LOCATED IN SECTION 33, T9S, R22E,
 S.L.B.&M., UINTAH COUNTY, UTAH

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

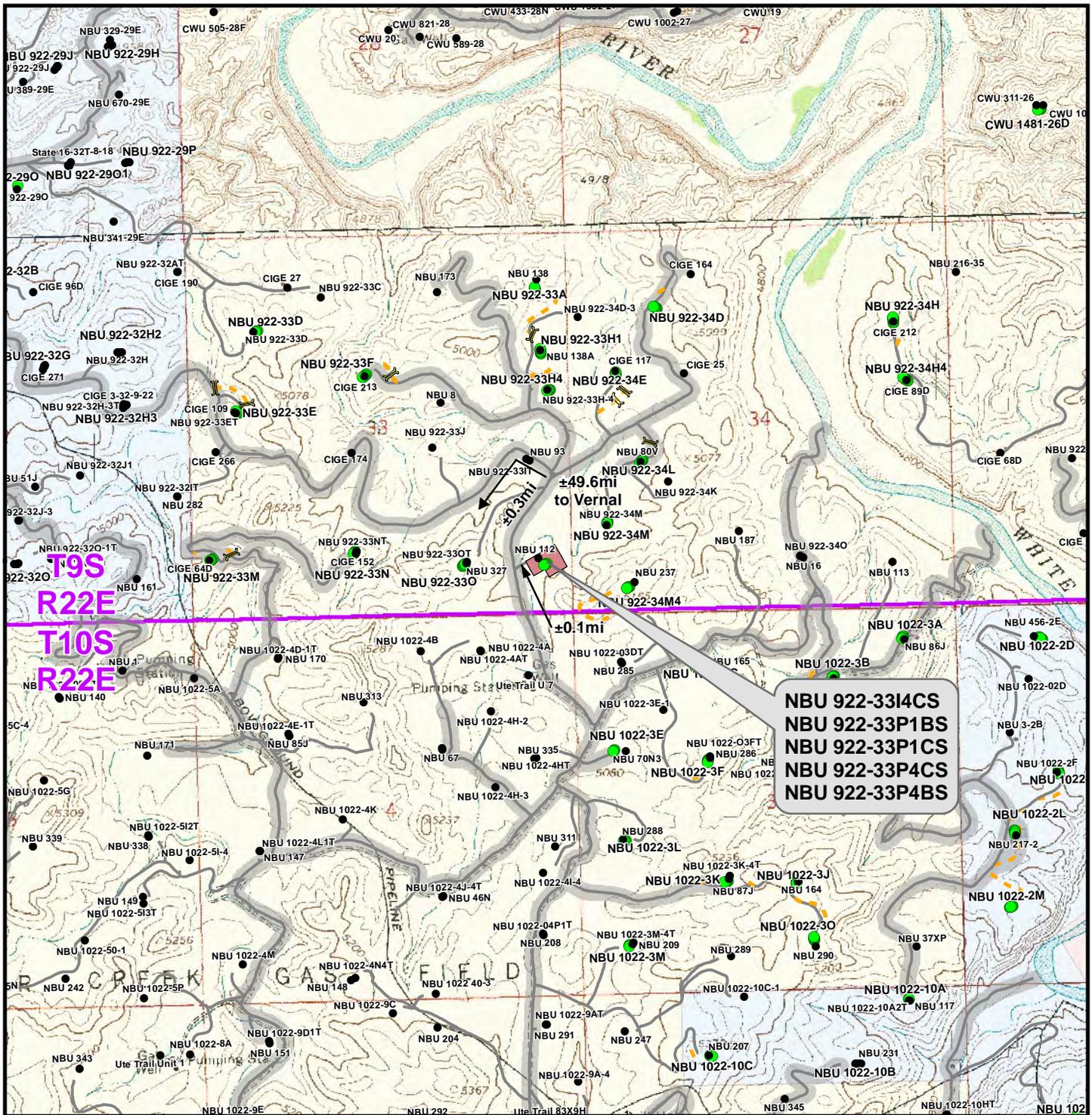
1099 18th Street
 Denver, Colorado 80202



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



SCALE: 1:100,000	NAD83 USP Central	SHEET NO:
DRAWN: TL	DATE: 24 Aug 2012	11
REVISED:	DATE:	
		11 OF 17



File: K:\VANADARKO\2012\2012_14_NBU_FOCUS_922-33\GIS\Maps_ABCDENBU_922-33P_B.mxd, 8/24/2012 4:50:07 PM

**NBU 922-33I4CS
NBU 922-33P1BS
NBU 922-33P1CS
NBU 922-33P4CS
NBU 922-33P4BS**

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

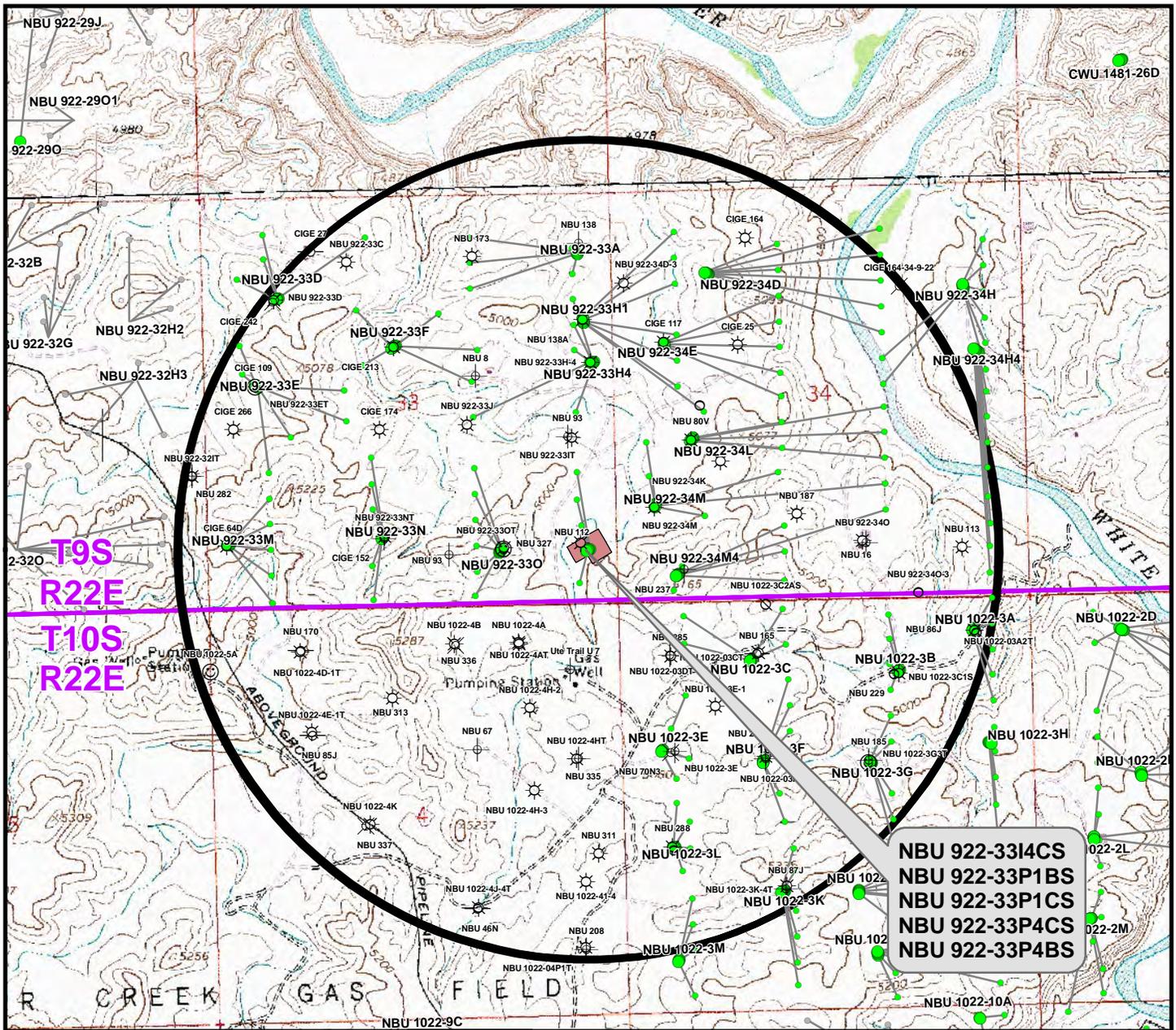
WELL PAD - NBU 922-33P
TOPO B
NBU 922-33I4CS,
NBU 922-33P1BS, NBU 922-33P1CS,
NBU 922-33P4CS & NBU 922-33P4BS
LOCATED IN SECTION 33, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

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	NAD83 USP Central	SHEET NO:
DRAWN: TL	DATE: 24 Aug 2012	12
REVISED:	DATE:	

12 OF 17



File: K:\ANADARKO\2012\14_NBU_FOCUS_922-33\GIS\Maps_ABCDENBU_922-33P_C.mxd, 8/24/2012 5:05:39 PM

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

Proposed Well	Nearest Well Bore	Footage
NBU 922-33I4CS	NBU 922-33IT	449ft
NBU 922-33P1BS	NBU 112	564ft
NBU 922-33P1CS	NBU 112	229ft
NBU 922-33P4CS	NBU 112	515ft
NBU 922-33P4BS	NBU 112	135ft

Legend

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

WELL PAD - NBU 922-33P
 TOPO C
 NBU 922-33I4CS,
 NBU 922-33P1BS, NBU 922-33P1CS,
 NBU 922-33P4CS & NBU 922-33P4BS
 LOCATED IN SECTION 33, T9S, R22E,
 S.L.B.&M., UINTAH COUNTY, UTAH

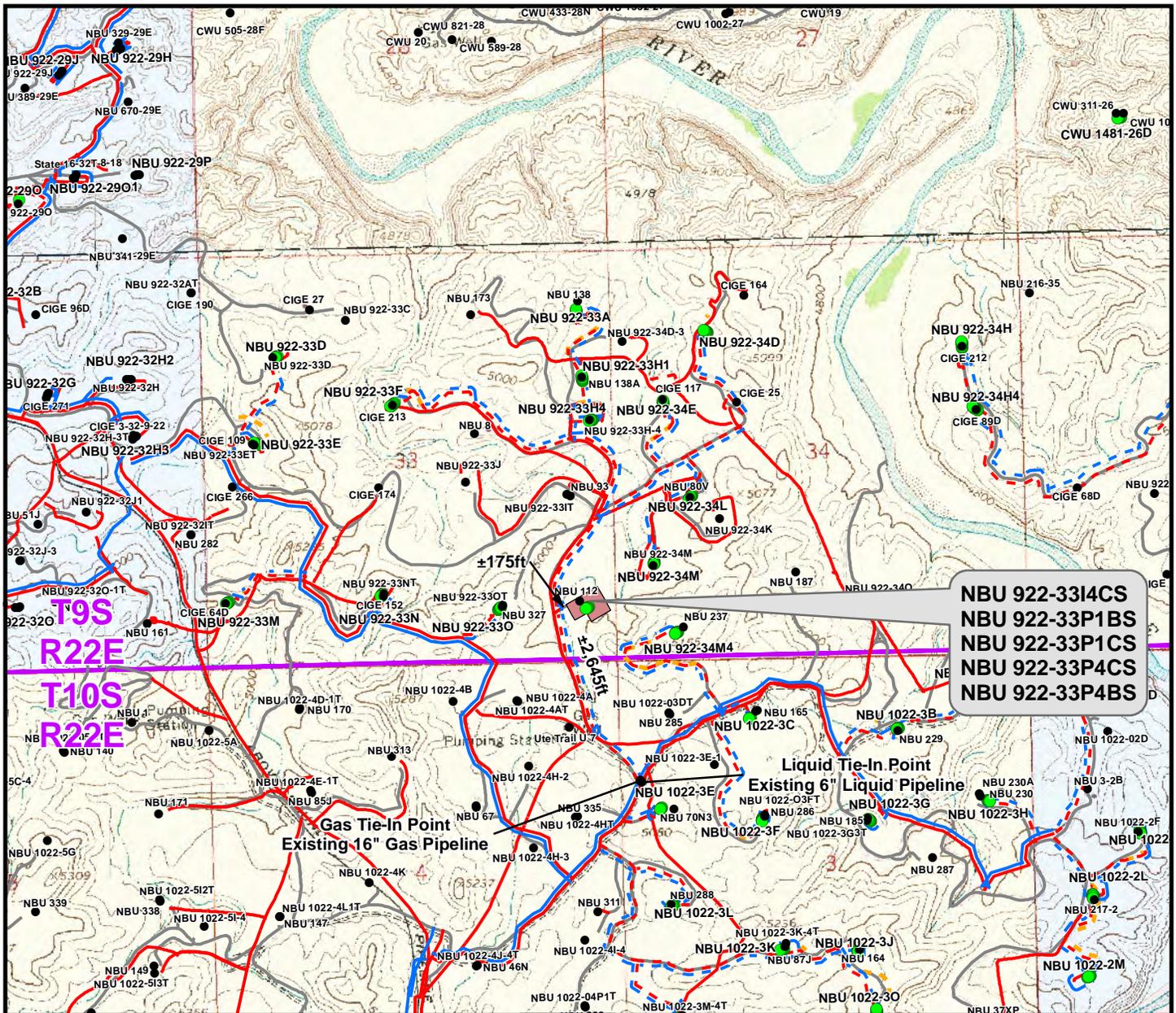
Kerr-McGee Oil & Gas Onshore L.P.
 1099 18th Street
 Denver, Colorado 80202

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

N

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

SHEET NO:
13 OF 17



NBU 922-33I4CS
NBU 922-33P1BS
NBU 922-33P1CS
NBU 922-33P4CS
NBU 922-33P4BS

Proposed Liquid Pipeline	Length
Buried 6" (Max.) (Separator to Edge of Pad)	±265ft
Buried 6" (Max.) (Edge of Pad to 33H4 Intersection)	±175ft
Buried 6" (Max.) (33H4 Intersection to Existing 6" Liquid Pipeline)	±2,645ft
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±3,085ft

Proposed Gas Pipeline	Length
Buried 8" (Meter House to Edge of Pad)	±265ft
Buried 8" (Edge of Pad to 33H4 Intersection)	±175ft
Buried 16" (33H4 Intersection to Existing 16" Gas Pipeline)	±2,645ft
TOTAL PROPOSED BURIED GAS PIPELINE =	±3,085ft

Legend

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

WELL PAD - NBU 922-33P

TOPO D
NBU 922-33I4CS,
NBU 922-33P1BS, NBU 922-33P1CS,
NBU 922-33P4CS & NBU 922-33P4BS
 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

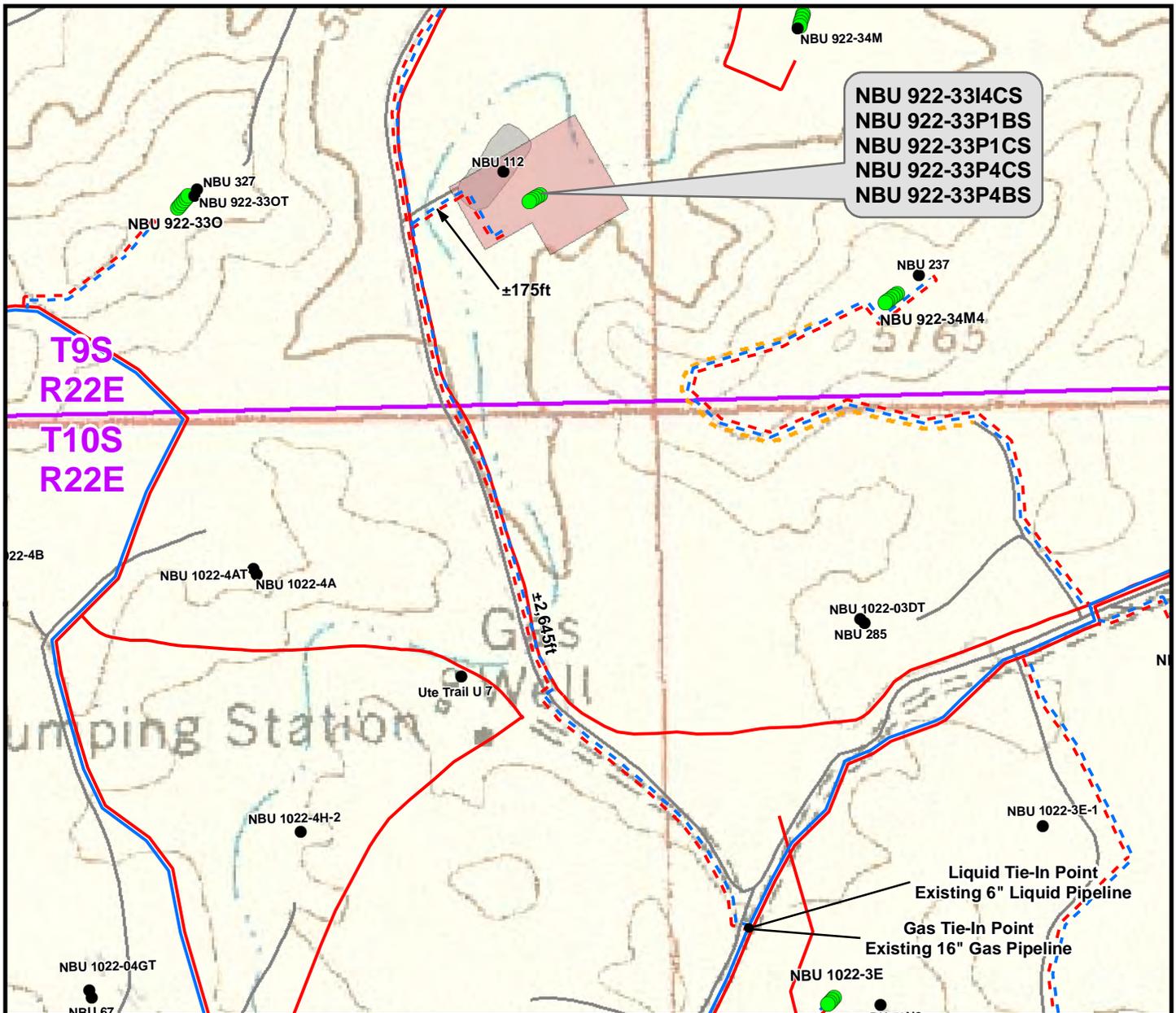
CONSULTING, LLC
 2155 North Main Street
 Sheridan, Wyoming 82801
 Phone 307-674-0609
 Fax 307-674-0182

N

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)	±265ft
Buried 6" (Max.) (Edge of Pad to 33H4 Intersection)	±175ft
Buried 6" (Max.) (33H4 Intersection to Existing 6" Liquid Pipeline)	±2,645ft
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±3,085ft

Proposed Gas Pipeline	Length
Buried 8" (Meter House to Edge of Pad)	±265ft
Buried 8" (Edge of Pad to 33H4 Intersection)	±175ft
Buried 16" (33H4 Intersection to Existing 16" Gas Pipeline)	±2,645ft
TOTAL PROPOSED BURIED GAS PIPELINE =	±3,085ft

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 922-33P
TOPO D2 (PAD & PIPELINE DETAIL)
 NBU 922-33I4CS,
 NBU 922-33P1BS, NBU 922-33P1CS,
 NBU 922-33P4CS & NBU 922-33P4BS
 LOCATED IN SECTION 33, T9S, R22E,
 S.L.B.&M., UINTAH COUNTY, UTAH

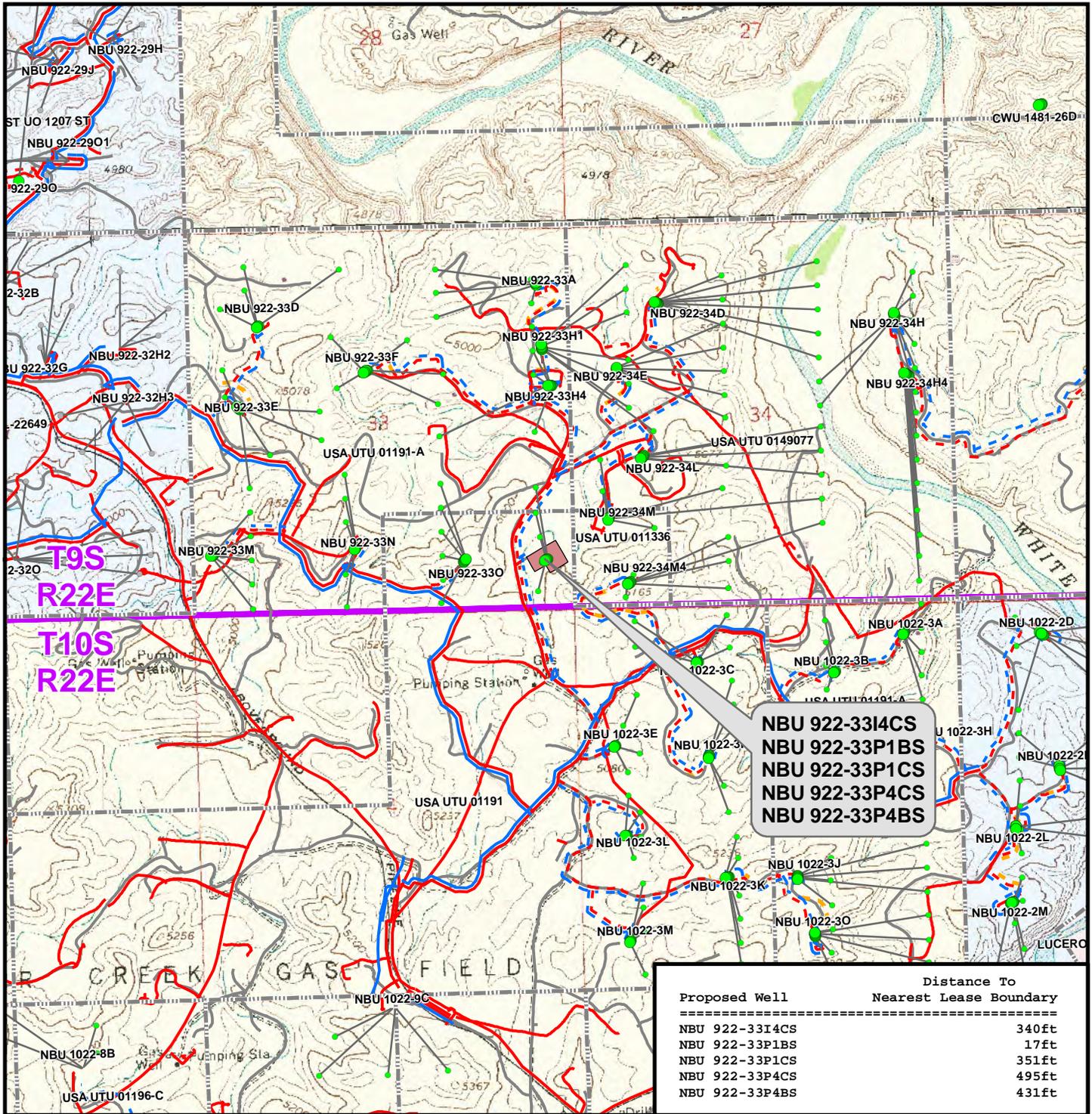
Kerr-McGee Oil & Gas Onshore L.P.
 1099 18th Street
 Denver, Colorado 80202



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



SCALE: 1" = 500ft	NAD83 USP Central	15 15 OF 17
DRAWN: TL	DATE: 24 Aug 2012	
REVISED:	DATE:	



NBU 922-33I4CS
NBU 922-33P1BS
NBU 922-33P1CS
NBU 922-33P4CS
NBU 922-33P4BS

Proposed Well	Distance To Nearest Lease Boundary
NBU 922-33I4CS	340ft
NBU 922-33P1BS	17ft
NBU 922-33P1CS	351ft
NBU 922-33P4CS	495ft
NBU 922-33P4BS	431ft

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Legend

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

WELL PAD - NBU 922-33P

TOPO E
 NBU 922-33I4CS,
 NBU 922-33P1BS, NBU 922-33P1CS,
 NBU 922-33P4CS & NBU 922-33P4BS
 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

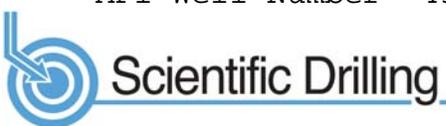
SCALE: 1" = 2,000ft	NAD83 USP Central	16
DRAWN: TL	DATE: 24 Aug 2012	
REVISED:	DATE:	

SHEET NO:
16 OF 17

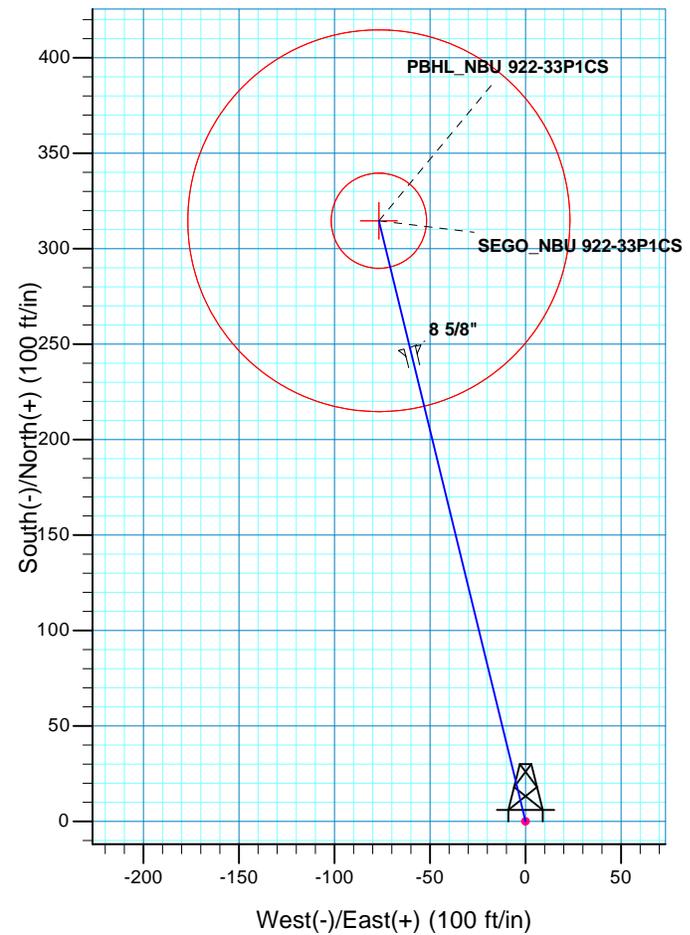
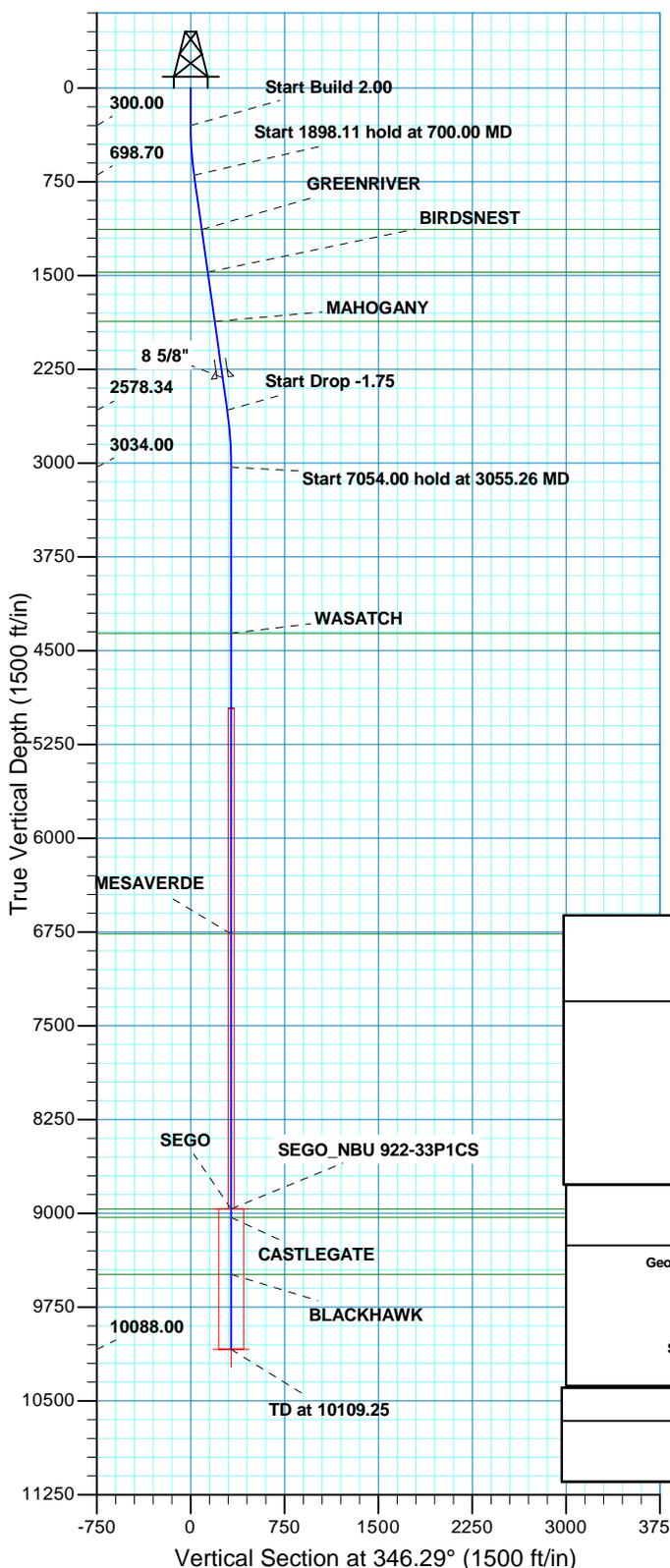
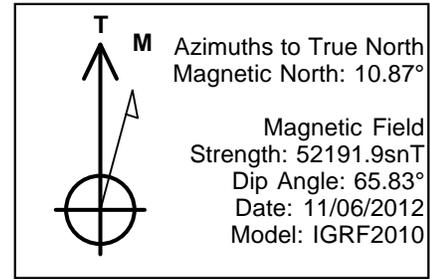
**Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 922-33P
WELLS – NBU 922-33I4CS,
NBU 922-33P1BS, NBU 922-33P1CS,
NBU 922-33P4CS & NBU 922-33P4BS
Section 33, T9S, R22E, S.L.B.&M.**

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, then southeasterly direction along the third Class D County Road approximately 4.7 miles to a fourth Class D County Road to the southwest. Exit right and proceed in a southwesterly direction along the fourth Class D County Road approximately 0.3 miles to a service road to the northeast. Exit left and proceed in a northeasterly direction approximately 0.1 miles to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 50.0 miles in a southerly direction.



WELL DETAILS: NBU 922-33P1CS								
GL 4997 & KB 4 @ 5001.00ft (ASSUMED)								
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude			
0.00	0.00	14525190.81	2078459.04	39.987105	-109.436217			
DESIGN TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
SEGO	8966.00	314.68	-76.77	14525504.09	2078376.76	39.987969	-109.436491	Circle (Radius: 25.00)
- plan hits target center								
PBHL	10088.00	314.68	-76.77	14525504.09	2078376.76	39.987969	-109.436491	Circle (Radius: 100.00)
- plan hits target center								



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	
700.00	8.00	346.29	698.70	27.09	-6.61	2.00	346.29	27.88	
2598.11	8.00	346.29	2578.34	283.73	-69.21	0.00	0.00	292.05	
3055.26	0.00	0.00	3034.00	314.68	-76.77	1.75	180.00	323.91	
10109.25	0.00	0.00	10088.00	314.68	-76.77	0.00	0.00	323.91	PBHL_NBU 922-33P1CS

PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N		FORMATION TOP DETAILS		
Geodetic System: Universal Transverse Mercator (US Survey Feet)	Datum: NAD 1927 (NADCON CONUS)	TVDPath	MDPath	Formation
Ellipsoid: Clarke 1866	Zone: Zone 12N (114 W to 108 W)	1132.00	1137.56	GREENRIVER
Location: SECTION 33 T9S R22E	System Datum: Mean Sea Level	1474.00	1482.92	BIRDSNEST
		1868.00	1880.79	MAHOGANY
		4362.00	4383.25	WASATCH
		6766.00	6787.25	MESAVERDE
		8966.00	8987.25	SEGO
		9033.00	9054.25	CASTLEGATE
		9488.00	9509.25	BLACKHAWK

CASING DETAILS			
TVD	MD	Name	Size
2318.00	2335.21	8 5/8"	8.625

RECEIVED :



Scientific Drilling

US ROCKIES REGION PLANNING

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

NBU 922-33P PAD

NBU 922-33P1CS

OH

Plan: PLAN #1 PRELIMINARY

Standard Planning Report

06 November, 2012





Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-33P1CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4997 & KB 4 @ 5001.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4997 & KB 4 @ 5001.00ft (ASSUMED)
Site:	NBU 922-33P PAD	North Reference:	True
Well:	NBU 922-33P1CS	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 922-33P PAD, SECTION 33 T9S R22E				
Site Position:	Northing:	14,525,185.92 usft	Latitude:	39.987092	
From: Lat/Long	Easting:	2,078,450.15 usft	Longitude:	-109.436249	
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	1.01 °

Well	NBU 922-33P1CS, 657 FSL 372 FEL					
Well Position	+N/-S	4.73 ft	Northing:	14,525,190.81 usft	Latitude:	39.987105
	+E/-W	8.97 ft	Easting:	2,078,459.03 usft	Longitude:	-109.436217
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,997.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/06/12	10.87	65.83	52,192

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	346.29

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	
700.00	8.00	346.29	698.70	27.09	-6.61	2.00	2.00	0.00	346.29	
2,598.11	8.00	346.29	2,578.34	283.73	-69.21	0.00	0.00	0.00	0.00	
3,055.26	0.00	0.00	3,034.00	314.68	-76.77	1.75	-1.75	0.00	180.00	
10,109.25	0.00	0.00	10,088.00	314.68	-76.77	0.00	0.00	0.00	0.00	PBHL_NBU 922-33P



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-33P1CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4997 & KB 4 @ 5001.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4997 & KB 4 @ 5001.00ft (ASSUMED)
Site:	NBU 922-33P PAD	North Reference:	True
Well:	NBU 922-33P1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00										
400.00	2.00	346.29	399.98	1.70	-0.41	1.75	2.00	2.00	2.00	0.00
500.00	4.00	346.29	499.84	6.78	-1.65	6.98	2.00	2.00	2.00	0.00
600.00	6.00	346.29	599.45	15.25	-3.72	15.69	2.00	2.00	2.00	0.00
700.00	8.00	346.29	698.70	27.09	-6.61	27.88	2.00	2.00	2.00	0.00
Start 1898.11 hold at 700.00 MD										
800.00	8.00	346.29	797.73	40.61	-9.91	41.80	0.00	0.00	0.00	0.00
900.00	8.00	346.29	896.76	54.13	-13.20	55.71	0.00	0.00	0.00	0.00
1,000.00	8.00	346.29	995.78	67.65	-16.50	69.63	0.00	0.00	0.00	0.00
1,100.00	8.00	346.29	1,094.81	81.17	-19.80	83.55	0.00	0.00	0.00	0.00
1,137.56	8.00	346.29	1,132.00	86.25	-21.04	88.78	0.00	0.00	0.00	0.00
GREENRIVER										
1,200.00	8.00	346.29	1,193.84	94.69	-23.10	97.47	0.00	0.00	0.00	0.00
1,300.00	8.00	346.29	1,292.86	108.21	-26.40	111.38	0.00	0.00	0.00	0.00
1,400.00	8.00	346.29	1,391.89	121.73	-29.70	125.30	0.00	0.00	0.00	0.00
1,482.92	8.00	346.29	1,474.00	132.94	-32.43	136.84	0.00	0.00	0.00	0.00
BIRDSNEST										
1,500.00	8.00	346.29	1,490.92	135.25	-32.99	139.22	0.00	0.00	0.00	0.00
1,600.00	8.00	346.29	1,589.94	148.77	-36.29	153.14	0.00	0.00	0.00	0.00
1,700.00	8.00	346.29	1,688.97	162.29	-39.59	167.05	0.00	0.00	0.00	0.00
1,800.00	8.00	346.29	1,788.00	175.81	-42.89	180.97	0.00	0.00	0.00	0.00
1,880.79	8.00	346.29	1,868.00	186.74	-45.55	192.21	0.00	0.00	0.00	0.00
MAHOGANY										
1,900.00	8.00	346.29	1,887.02	189.34	-46.19	194.89	0.00	0.00	0.00	0.00
2,000.00	8.00	346.29	1,986.05	202.86	-49.49	208.80	0.00	0.00	0.00	0.00
2,100.00	8.00	346.29	2,085.08	216.38	-52.78	222.72	0.00	0.00	0.00	0.00
2,200.00	8.00	346.29	2,184.10	229.90	-56.08	236.64	0.00	0.00	0.00	0.00
2,300.00	8.00	346.29	2,283.13	243.42	-59.38	250.56	0.00	0.00	0.00	0.00
2,335.21	8.00	346.29	2,318.00	248.18	-60.54	255.46	0.00	0.00	0.00	0.00
8 5/8"										
2,400.00	8.00	346.29	2,382.16	256.94	-62.68	264.47	0.00	0.00	0.00	0.00
2,500.00	8.00	346.29	2,481.18	270.46	-65.98	278.39	0.00	0.00	0.00	0.00
2,598.11	8.00	346.29	2,578.34	283.73	-69.21	292.05	0.00	0.00	0.00	0.00
Start Drop -1.75										
2,600.00	7.97	346.29	2,580.21	283.98	-69.28	292.31	1.75	-1.75	0.00	0.00
2,700.00	6.22	346.29	2,679.44	295.97	-72.20	304.65	1.75	-1.75	0.00	0.00
2,800.00	4.47	346.29	2,779.00	305.02	-74.41	313.96	1.75	-1.75	0.00	0.00
2,900.00	2.72	346.29	2,878.80	311.11	-75.89	320.23	1.75	-1.75	0.00	0.00
3,000.00	0.97	346.29	2,978.75	314.23	-76.66	323.44	1.75	-1.75	0.00	0.00
3,055.26	0.00	0.00	3,034.00	314.68	-76.77	323.91	1.75	-1.75	0.00	0.00
Start 7054.00 hold at 3055.26 MD										
3,100.00	0.00	0.00	3,078.75	314.68	-76.77	323.91	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,178.75	314.68	-76.77	323.91	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,278.75	314.68	-76.77	323.91	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,378.75	314.68	-76.77	323.91	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,478.75	314.68	-76.77	323.91	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,578.75	314.68	-76.77	323.91	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,678.75	314.68	-76.77	323.91	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,778.75	314.68	-76.77	323.91	0.00	0.00	0.00	0.00



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-33P1CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4997 & KB 4 @ 5001.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4997 & KB 4 @ 5001.00ft (ASSUMED)
Site:	NBU 922-33P PAD	North Reference:	True
Well:	NBU 922-33P1CS	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	3,878.75	314.68	-76.77	323.91	0.00	0.00	0.00
4,000.00	0.00	0.00	3,978.75	314.68	-76.77	323.91	0.00	0.00	0.00
4,100.00	0.00	0.00	4,078.75	314.68	-76.77	323.91	0.00	0.00	0.00
4,200.00	0.00	0.00	4,178.75	314.68	-76.77	323.91	0.00	0.00	0.00
4,300.00	0.00	0.00	4,278.75	314.68	-76.77	323.91	0.00	0.00	0.00
4,383.25	0.00	0.00	4,362.00	314.68	-76.77	323.91	0.00	0.00	0.00
WASATCH									
4,400.00	0.00	0.00	4,378.75	314.68	-76.77	323.91	0.00	0.00	0.00
4,500.00	0.00	0.00	4,478.75	314.68	-76.77	323.91	0.00	0.00	0.00
4,600.00	0.00	0.00	4,578.75	314.68	-76.77	323.91	0.00	0.00	0.00
4,700.00	0.00	0.00	4,678.75	314.68	-76.77	323.91	0.00	0.00	0.00
4,800.00	0.00	0.00	4,778.75	314.68	-76.77	323.91	0.00	0.00	0.00
4,900.00	0.00	0.00	4,878.75	314.68	-76.77	323.91	0.00	0.00	0.00
5,000.00	0.00	0.00	4,978.75	314.68	-76.77	323.91	0.00	0.00	0.00
5,100.00	0.00	0.00	5,078.75	314.68	-76.77	323.91	0.00	0.00	0.00
5,200.00	0.00	0.00	5,178.75	314.68	-76.77	323.91	0.00	0.00	0.00
5,300.00	0.00	0.00	5,278.75	314.68	-76.77	323.91	0.00	0.00	0.00
5,400.00	0.00	0.00	5,378.75	314.68	-76.77	323.91	0.00	0.00	0.00
5,500.00	0.00	0.00	5,478.75	314.68	-76.77	323.91	0.00	0.00	0.00
5,600.00	0.00	0.00	5,578.75	314.68	-76.77	323.91	0.00	0.00	0.00
5,700.00	0.00	0.00	5,678.75	314.68	-76.77	323.91	0.00	0.00	0.00
5,800.00	0.00	0.00	5,778.75	314.68	-76.77	323.91	0.00	0.00	0.00
5,900.00	0.00	0.00	5,878.75	314.68	-76.77	323.91	0.00	0.00	0.00
6,000.00	0.00	0.00	5,978.75	314.68	-76.77	323.91	0.00	0.00	0.00
6,100.00	0.00	0.00	6,078.75	314.68	-76.77	323.91	0.00	0.00	0.00
6,200.00	0.00	0.00	6,178.75	314.68	-76.77	323.91	0.00	0.00	0.00
6,300.00	0.00	0.00	6,278.75	314.68	-76.77	323.91	0.00	0.00	0.00
6,400.00	0.00	0.00	6,378.75	314.68	-76.77	323.91	0.00	0.00	0.00
6,500.00	0.00	0.00	6,478.75	314.68	-76.77	323.91	0.00	0.00	0.00
6,600.00	0.00	0.00	6,578.75	314.68	-76.77	323.91	0.00	0.00	0.00
6,700.00	0.00	0.00	6,678.75	314.68	-76.77	323.91	0.00	0.00	0.00
6,787.25	0.00	0.00	6,766.00	314.68	-76.77	323.91	0.00	0.00	0.00
MESAVERDE									
6,800.00	0.00	0.00	6,778.75	314.68	-76.77	323.91	0.00	0.00	0.00
6,900.00	0.00	0.00	6,878.75	314.68	-76.77	323.91	0.00	0.00	0.00
7,000.00	0.00	0.00	6,978.75	314.68	-76.77	323.91	0.00	0.00	0.00
7,100.00	0.00	0.00	7,078.75	314.68	-76.77	323.91	0.00	0.00	0.00
7,200.00	0.00	0.00	7,178.75	314.68	-76.77	323.91	0.00	0.00	0.00
7,300.00	0.00	0.00	7,278.75	314.68	-76.77	323.91	0.00	0.00	0.00
7,400.00	0.00	0.00	7,378.75	314.68	-76.77	323.91	0.00	0.00	0.00
7,500.00	0.00	0.00	7,478.75	314.68	-76.77	323.91	0.00	0.00	0.00
7,600.00	0.00	0.00	7,578.75	314.68	-76.77	323.91	0.00	0.00	0.00
7,700.00	0.00	0.00	7,678.75	314.68	-76.77	323.91	0.00	0.00	0.00
7,800.00	0.00	0.00	7,778.75	314.68	-76.77	323.91	0.00	0.00	0.00
7,900.00	0.00	0.00	7,878.75	314.68	-76.77	323.91	0.00	0.00	0.00
8,000.00	0.00	0.00	7,978.75	314.68	-76.77	323.91	0.00	0.00	0.00
8,100.00	0.00	0.00	8,078.75	314.68	-76.77	323.91	0.00	0.00	0.00
8,200.00	0.00	0.00	8,178.75	314.68	-76.77	323.91	0.00	0.00	0.00
8,300.00	0.00	0.00	8,278.75	314.68	-76.77	323.91	0.00	0.00	0.00
8,400.00	0.00	0.00	8,378.75	314.68	-76.77	323.91	0.00	0.00	0.00
8,500.00	0.00	0.00	8,478.75	314.68	-76.77	323.91	0.00	0.00	0.00
8,600.00	0.00	0.00	8,578.75	314.68	-76.77	323.91	0.00	0.00	0.00
8,700.00	0.00	0.00	8,678.75	314.68	-76.77	323.91	0.00	0.00	0.00
8,800.00	0.00	0.00	8,778.75	314.68	-76.77	323.91	0.00	0.00	0.00



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-33P1CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4997 & KB 4 @ 5001.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4997 & KB 4 @ 5001.00ft (ASSUMED)
Site:	NBU 922-33P PAD	North Reference:	True
Well:	NBU 922-33P1CS	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	8,878.75	314.68	-76.77	323.91	0.00	0.00	0.00	
8,987.25	0.00	0.00	8,966.00	314.68	-76.77	323.91	0.00	0.00	0.00	
SEGO - SEGO_NBU 922-33P1CS										
9,000.00	0.00	0.00	8,978.75	314.68	-76.77	323.91	0.00	0.00	0.00	
9,054.25	0.00	0.00	9,033.00	314.68	-76.77	323.91	0.00	0.00	0.00	
CASTLEGATE										
9,100.00	0.00	0.00	9,078.75	314.68	-76.77	323.91	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,178.75	314.68	-76.77	323.91	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,278.75	314.68	-76.77	323.91	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,378.75	314.68	-76.77	323.91	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,478.75	314.68	-76.77	323.91	0.00	0.00	0.00	
9,509.25	0.00	0.00	9,488.00	314.68	-76.77	323.91	0.00	0.00	0.00	
BLACKHAWK										
9,600.00	0.00	0.00	9,578.75	314.68	-76.77	323.91	0.00	0.00	0.00	
9,700.00	0.00	0.00	9,678.75	314.68	-76.77	323.91	0.00	0.00	0.00	
9,800.00	0.00	0.00	9,778.75	314.68	-76.77	323.91	0.00	0.00	0.00	
9,900.00	0.00	0.00	9,878.75	314.68	-76.77	323.91	0.00	0.00	0.00	
10,000.00	0.00	0.00	9,978.75	314.68	-76.77	323.91	0.00	0.00	0.00	
10,100.00	0.00	0.00	10,078.75	314.68	-76.77	323.91	0.00	0.00	0.00	
10,109.25	0.00	0.00	10,088.00	314.68	-76.77	323.91	0.00	0.00	0.00	
TD at 10109.25 - PBHL_NBU 922-33P1CS										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
SEGO_NBU 922-33P1C - hit/miss target - Shape - plan hits target center - Circle (radius 25.00)	0.00	0.00	8,966.00	314.68	-76.77	14,525,504.10	2,078,376.76	39.987969	-109.436491	
PBHL_NBU 922-33P1C: - plan hits target center - Circle (radius 100.00)	0.00	0.00	10,088.00	314.68	-76.77	14,525,504.10	2,078,376.76	39.987969	-109.436491	

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)		
2,335.21	2,318.00	8 5/8"	8.625	11.000		



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-33P1CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4997 & KB 4 @ 5001.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4997 & KB 4 @ 5001.00ft (ASSUMED)
Site:	NBU 922-33P PAD	North Reference:	True
Well:	NBU 922-33P1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,137.56	1,132.00	GREENRIVER				
1,482.92	1,474.00	BIRDSNEST				
1,880.79	1,868.00	MAHOGANY				
4,383.25	4,362.00	WASATCH				
6,787.25	6,766.00	MESAVERDE				
8,987.25	8,966.00	SEGO				
9,054.25	9,033.00	CASTLEGATE				
9,509.25	9,488.00	BLACKHAWK				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
300.00	300.00	0.00	0.00	Start Build 2.00	
700.00	698.70	27.09	-6.61	Start 1898.11 hold at 700.00 MD	
2,598.11	2,578.34	283.73	-69.21	Start Drop -1.75	
3,055.26	3,034.00	314.68	-76.77	Start 7054.00 hold at 3055.26 MD	
10,109.25	10,088.00	314.68	-76.77	TD at 10109.25	

NBU 922-3314CS/ 922-33P1BS/ 922-33P1CS
 NBU 922-33P4BS/ 922-33P4CS
 Kerr-McGee Oil Gas Onshore, L.P.

Surface Use Plan of Operations
 1 of 5

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

NBU 922-33P PAD

<u>API #</u>	<u>NBU 922-3314CS</u>		
	Surface: 667 FSL / 355 FEL	SESE	Lot
	BHL: 1664 FSL / 494 FEL	NESE	Lot
<u>API #</u>	<u>NBU 922-33P1BS</u>		
	Surface: 662 FSL / 364 FEL	SESE	Lot
	BHL: 1306 FSL / 507 FEL	SESE	Lot
<u>API #</u>	<u>NBU 922-33P1CS</u>		
	Surface: 657 FSL / 372 FEL	SESE	Lot
	BHL: 972 FSL / 449 FEL	SESE	Lot
<u>API #</u>	<u>NBU 922-33P4BS</u>		
	Surface: 648 FSL / 390 FEL	SESE	Lot
	BHL: 613 FSL / 431 FEL	SESE	Lot
<u>API #</u>	<u>NBU 922-33P4CS</u>		
	Surface: 652 FSL / 381 FEL	SESE	Lot
	BHL: 229 FSL / 495 FEL	SESE	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 922-3314CS/ 922-33P1BS/ 922-33P1CS
 NBU 922-33P4BS/ 922-33P4CS
 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 112. The NBU 112 is a producing gas well and the NBU 112 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 $\pm 3,085'$ and the individual segments are broken up as follows:

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

- $\pm 265'$ (0.05 miles) – Section 33 T9S R22E (SE/4 SE/4) – On-lease UTU-01191, 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.
- $\pm 175'$ (0.03 miles) – Section 33 T9S R22E (SE/4 SE/4) – On-lease UTU-01191, BLM surface, New 8" buried gas gathering pipeline from the edge of the pad to tie-in to the NBU 922-33H Pad pipeline intersection. Please refer to Exhibit A Gas Gathering- Line 2.

The following segments require a ROW. Anadarko Uintah Midstream (AUM) will apply for an SF-299/POD under separate cover. Listed below is the gas gathering pipeline distances:

- $\pm 2,645'$ (0.5 miles) – Section 33 T9S R22E and Section 3 and 4 T10S R22E – On-lease UTU-01191, BLM surface, New 16" buried gas gathering pipeline from the NBU 922-33H Pad pipeline intersection to tie-in to the existing 16" gas pipeline to the southeast in 1022-3 at the 1022-3E Pad intersection. Please refer to Exhibit A Gas Gathering- Line 1.

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 $\pm 3,085'$ and the individual segments are broken up as follows:

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

- $\pm 265'$ (0.05 miles) – Section 33 T9S R22E (SE/4 SE/4) – On-lease UTU-01191, 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.

NBU 922-33I4CS/ 922-33P1BS/ 922-33P1CS
 NBU 922-33P4BS/ 922-33P4CS
 Kerr-McGee Oil Gas Onshore, L.P.

Surface Use Plan of Operations
 3 of 5

- ±175' (0.03 miles) – Section 33 T9S R22E (SE/4 SE/4) – On-lease UTU-01191, BLM surface, New 6" buried liquid gathering pipeline from the edge of the pad to tie-in to the NBU 922-33H Pad pipeline intersection. Please refer to Exhibit B Liquid Gathering- Line 2.
- ±2,645' (0.5 miles) – Section 33 T9S R22E and Section 3 and 4 T10S R22E – On-lease UTU-01191, BLM surface, New 6" buried liquid gathering pipeline from the NBU 922-33H Pad pipeline intersection to tie-in to the existing 16" liquid pipeline to the southeast in 1022-3 at the 1022-3E Pad intersection. This pipeline will be used concurrently with the NBU 922-33F, NBU 922-33H, NBU 922-34E, NBU 922-34F, NBU 922-34L and NBU 922-34M pads. Please refer to Exhibit B Liquid Gathering-Line 1.

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.

NBU 922-3314CS/ 922-33P1BS/ 922-33P1CS
NBU 922-33P4BS/ 922-33P4CS
Kerr-McGee Oil Gas Onshore, L.P.

Surface Use Plan of Operations
4 of 5

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.

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-840 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 922-33I4CS/ 922-33P1BS/ 922-33P1CS
NBU 922-33P4BS/ 922-33P4CS
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

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

December 20, 2012

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2012 Plan of Development Natural Buttes Unit
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2012 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
NBU 922-33E PAD		
43-047-53386	NBU 922-33L4BS	Sec 33 T09S R22E 2440 FNL 0705 FWL
	BHL	Sec 33 T09S R22E 1740 FSL 0822 FWL
43-047-53391	NBU 922-33L1CS	Sec 33 T09S R22E 2447 FNL 0713 FWL
	BHL	Sec 33 T09S R22E 2194 FSL 1113 FWL
43-047-53397	NBU 922-33K1BS	Sec 33 T09S R22E 2434 FNL 0698 FWL
	BHL	Sec 33 T09S R22E 2383 FSL 1837 FWL
43-047-53398	NBU 922-33F4CS	Sec 33 T09S R22E 2427 FNL 0690 FWL
	BHL	Sec 33 T09S R22E 2513 FNL 1817 FWL
43-047-53407	NBU 922-33E4BS	Sec 33 T09S R22E 2414 FNL 0675 FWL
	BHL	Sec 33 T09S R22E 2278 FNL 0508 FWL
43-047-53408	NBU 922-33E1CS	Sec 33 T09S R22E 2420 FNL 0683 FWL
	BHL	Sec 33 T09S R22E 1904 FNL 0487 FWL
NBU 922-33F PAD		
43-047-53387	NBU 922-33B1CS	Sec 33 T09S R22E 1955 FNL 2480 FWL
	BHL	Sec 33 T09S R22E 0579 FNL 1815 FEL
43-047-53388	NBU 922-33B4BS	Sec 33 T09S R22E 1949 FNL 2488 FWL
	BHL	Sec 33 T09S R22E 0910 FNL 1814 FEL
43-047-53389	NBU 922-33B4CS	Sec 33 T09S R22E 1943 FNL 2497 FWL
	BHL	Sec 33 T09S R22E 1241 FNL 1814 FEL
43-047-53390	NBU 922-33F1BS	Sec 33 T09S R22E 1984 FNL 2439 FWL
	BHL	Sec 33 T09S R22E 1487 FNL 1992 FWL
43-047-53392	NBU 922-33F1CS	Sec 33 T09S R22E 1989 FNL 2431 FWL
	BHL	Sec 33 T09S R22E 1839 FNL 2060 FWL
43-047-53393	NBU 922-33F4BS	Sec 33 T09S R22E 1995 FNL 2423 FWL
	BHL	Sec 33 T09S R22E 2197 FNL 2068 FWL

RECEIVED: December 20, 2012

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-53394	NBU 922-33G4BS	Sec 33 T09S R22E 1972 FNL 2456 FWL BHL Sec 33 T09S R22E 2027 FNL 1738 FEL
43-047-53395	NBU 922-33G4CS	Sec 33 T09S R22E 1978 FNL 2448 FWL BHL Sec 33 T09S R22E 2439 FNL 1818 FEL
43-047-53396	NBU 922-33G1BS	Sec 33 T09S R22E 1961 FNL 2472 FWL BHL Sec 33 T09S R22E 1628 FNL 1811 FEL
NBU 922-33H PAD		
43-047-53399	NBU 922-33A4BS	Sec 33 T09S R22E 2221 FNL 0235 FEL BHL Sec 33 T09S R22E 0745 FNL 0493 FEL
43-047-53400	NBU 922-33A4CS	Sec 33 T09S R22E 2222 FNL 0245 FEL BHL Sec 33 T09S R22E 1076 FNL 0493 FEL
43-047-53401	NBU 922-33H1CS	Sec 33 T09S R22E 2223 FNL 0265 FEL BHL Sec 33 T09S R22E 1737 FNL 0493 FEL
43-047-53402	NBU 922-33H1BS	Sec 33 T09S R22E 2222 FNL 0255 FEL BHL Sec 33 T09S R22E 1406 FNL 0493 FEL
43-047-53403	NBU 922-33I1BS	Sec 33 T09S R22E 2223 FNL 0275 FEL BHL Sec 33 T09S R22E 2434 FSL 0490 FEL
43-047-53404	NBU 922-33J1BS	Sec 33 T09S R22E 2225 FNL 0305 FEL BHL Sec 33 T09S R22E 2401 FSL 1814 FEL
43-047-53405	NBU 922-34D4CS	Sec 33 T09S R22E 2220 FNL 0205 FEL BHL Sec 34 T09S R22E 1233 FNL 0825 FWL
43-047-53406	NBU 922-33H4BS	Sec 33 T09S R22E 2224 FNL 0295 FEL BHL Sec 33 T09S R22E 2068 FNL 0493 FEL
NBU 922-33M PAD		
43-047-53409	NBU 922-33L4CS	Sec 33 T09S R22E 0833 FSL 0289 FWL BHL Sec 33 T09S R22E 1409 FSL 0822 FWL
43-047-53410	NBU 922-33M1BS	Sec 33 T09S R22E 0837 FSL 0297 FWL BHL Sec 33 T09S R22E 1078 FSL 0822 FWL
43-047-53411	NBU 922-33M1CS	Sec 33 T09S R22E 0828 FSL 0280 FWL BHL Sec 33 T09S R22E 0746 FSL 0822 FWL
43-047-53412	NBU 922-33M4BS	Sec 33 T09S R22E 0824 FSL 0271 FWL BHL Sec 33 T09S R22E 0415 FSL 0822 FWL
43-047-53413	NBU 922-33M4CS	Sec 33 T09S R22E 0819 FSL 0262 FWL BHL Sec 33 T09S R22E 0065 FSL 0824 FWL
NBU 922-33N PAD		
43-047-53414	NBU 922-33K4BS	Sec 33 T09S R22E 0894 FSL 2273 FWL BHL Sec 33 T09S R22E 1905 FSL 2143 FWL
43-047-53424	NBU 922-33K4CS	Sec 33 T09S R22E 0886 FSL 2267 FWL BHL Sec 33 T09S R22E 1563 FSL 2141 FWL
43-047-53427	NBU 922-33N4CS	Sec 33 T09S R22E 0870 FSL 2255 FWL BHL Sec 33 T09S R22E 0069 FSL 2125 FWL
43-047-53428	NBU 922-33N1BS	Sec 33 T09S R22E 0878 FSL 2261 FWL BHL Sec 33 T09S R22E 1242 FSL 2143 FWL
43-047-53430	NBU 922-33N4BS	Sec 33 T09S R22E 0862 FSL 2249 FWL BHL Sec 33 T09S R22E 0507 FSL 2121 FWL
NBU 922-33P PAD		
43-047-53416	NBU 922-33P1CS	Sec 33 T09S R22E 0657 FSL 0372 FEL BHL Sec 33 T09S R22E 0972 FSL 0449 FEL

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-53417	NBU 922-33P1BS	Sec 33 T09S R22E 0662 FSL 0364 FEL BHL Sec 33 T09S R22E 1306 FSL 0507 FEL
43-047-53418	NBU 922-33I4CS	Sec 33 T09S R22E 0667 FSL 0355 FEL BHL Sec 33 T09S R22E 1664 FSL 0494 FEL
43-047-53422	NBU 922-33P4CS	Sec 33 T09S R22E 0652 FSL 0381 FEL BHL Sec 33 T09S R22E 0229 FSL 0495 FEL
43-047-53423	NBU 922-33P4BS	Sec 33 T09S R22E 0648 FSL 0390 FEL BHL Sec 33 T09S R22E 0613 FSL 0431 FEL
NBU 922-330 PAD		
43-047-53419	NBU 922-3304CS	Sec 33 T09S R22E 0661 FSL 1513 FEL BHL Sec 33 T09S R22E 0095 FSL 1837 FEL
43-047-53420	NBU 922-3304BS	Sec 33 T09S R22E 0654 FSL 1520 FEL BHL Sec 33 T09S R22E 0403 FSL 1806 FEL
43-047-53421	NBU 922-3301CS	Sec 33 T09S R22E 0668 FSL 1506 FEL BHL Sec 33 T09S R22E 0746 FSL 1814 FEL
43-047-53425	NBU 922-3301BS	Sec 33 T09S R22E 0676 FSL 1499 FEL BHL Sec 33 T09S R22E 1077 FSL 1814 FEL
43-047-53426	NBU 922-33J4CS	Sec 33 T09S R22E 0683 FSL 1493 FEL BHL Sec 33 T09S R22E 1408 FSL 1814 FEL
43-047-53429	NBU 922-33J4BS	Sec 33 T09S R22E 0691 FSL 1486 FEL BHL Sec 33 T09S R22E 1739 FSL 1814 FEL
NBU 921-17C PAD		
43-047-53431	NBU 921-17C1CS	Sec 17 T09S R21E 0620 FNL 2019 FWL BHL Sec 17 T09S R21E 0413 FNL 2158 FWL
43-047-53432	NBU 921-17C1BS	Sec 17 T09S R21E 0625 FNL 2010 FWL BHL Sec 17 T09S R21E 0062 FNL 2158 FWL
NBU 921-17B PAD		
43-047-53433	NBU 921-17B1BS	Sec 17 T09S R21E 0465 FNL 1960 FEL BHL Sec 17 T09S R21E 0179 FNL 1835 FEL
43-047-53434	NBU 921-17A1CS	Sec 17 T09S R21E 0463 FNL 1940 FEL BHL Sec 17 T09S R21E 0413 FNL 0497 FEL
43-047-53435	NBU 921-17B4BS	Sec 17 T09S R21E 0467 FNL 1970 FEL BHL Sec 17 T09S R21E 0909 FNL 1824 FEL
43-047-53436	NBU 921-17A1BS	Sec 17 T09S R21E 0464 FNL 1950 FEL BHL Sec 17 T09S R21E 0110 FNL 0497 FEL

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
 DN: cn=Michael L. Coulthard, o=Bureau of Land Management,
 ou=Branch of Minerals, email=Michael_Coulthard@blm.gov, c=US
 Date: 2012.12.20 13:54:48 -0700

bcc: File - Natural Buttes Unit
 Division of Oil Gas and Mining
 Central Files
 Agr. Sec. Chron
 Fluid Chron

MCoulthard:mc:12-20-12

RECEIVED: December 20, 2012

API	Well No	Section	Township	Surface Location
43-047-53386	NBU 922-33L4BS	Sec 33	T09S R22E	2440 FNL 0705 FWL
43-047-53387	NBU 922-33B1CS	Sec 33	T09S R22E	1955 FNL 2480 FWL
43-047-53388	NBU 922-33B4BS	Sec 33	T09S R22E	1949 FNL 2488 FWL
43-047-53389	NBU 922-33B4CS	Sec 33	T09S R22E	1943 FNL 2497 FWL
43-047-53390	NBU 922-33F1BS	Sec 33	T09S R22E	1984 FNL 2439 FWL
43-047-53391	NBU 922-33L1CS	Sec 33	T09S R22E	2447 FNL 0713 FWL
43-047-53392	NBU 922-33F1CS	Sec 33	T09S R22E	1989 FNL 2431 FWL
43-047-53393	NBU 922-33F4BS	Sec 33	T09S R22E	1995 FNL 2423 FWL
43-047-53394	NBU 922-33G4BS	Sec 33	T09S R22E	1972 FNL 2456 FWL
43-047-53395	NBU 922-33G4CS	Sec 33	T09S R22E	1978 FNL 2448 FWL
43-047-53396	NBU 922-33G1BS	Sec 33	T09S R22E	1961 FNL 2472 FWL
43-047-53397	NBU 922-33K1BS	Sec 33	T09S R22E	2434 FNL 0698 FWL
43-047-53398	NBU 922-33F4CS	Sec 33	T09S R22E	2427 FNL 0690 FWL
43-047-53399	NBU 922-33A4BS	Sec 33	T09S R22E	2221 FNL 0235 FEL
43-047-53400	NBU 922-33A4CS	Sec 33	T09S R22E	2222 FNL 0245 FEL
43-047-53401	NBU 922-33H1CS	Sec 33	T09S R22E	2223 FNL 0265 FEL
43-047-53402	NBU 922-33H1BS	Sec 33	T09S R22E	2222 FNL 0255 FEL
43-047-53403	NBU 922-33I1BS	Sec 33	T09S R22E	2223 FNL 0275 FEL
43-047-53404	NBU 922-33J1BS	Sec 33	T09S R22E	2225 FNL 0305 FEL
43-047-53405	NBU 922-34D4CS	Sec 33	T09S R22E	2220 FNL 0205 FEL
43-047-53406	NBU 922-33H4BS	Sec 33	T09S R22E	2224 FNL 0295 FEL
43-047-53407	NBU 922-33E4BS	Sec 33	T09S R22E	2414 FNL 0675 FWL
43-047-53408	NBU 922-33E1CS	Sec 33	T09S R22E	2420 FNL 0683 FWL
43-047-53409	NBU 922-33L4CS	Sec 33	T09S R22E	0833 FSL 0289 FWL
43-047-53410	NBU 922-33M1BS	Sec 33	T09S R22E	0837 FSL 0297 FWL
43-047-53411	NBU 922-33M1CS	Sec 33	T09S R22E	0828 FSL 0280 FWL
43-047-53412	NBU 922-33M4BS	Sec 33	T09S R22E	0824 FSL 0271 FWL
43-047-53413	NBU 922-33M4CS	Sec 33	T09S R22E	0819 FSL 0262 FWL
43-047-53414	NBU 922-33K4BS	Sec 33	T09S R22E	0894 FSL 2273 FWL
43-047-53416	NBU 922-33P1CS	Sec 33	T09S R22E	0657 FSL 0372 FEL
43-047-53417	NBU 922-33P1BS	Sec 33	T09S R22E	0662 FSL 0364 FEL
43-047-53418	NBU 922-33I4CS	Sec 33	T09S R22E	0667 FSL 0355 FEL
43-047-53419	NBU 922-33O4CS	Sec 33	T09S R22E	0661 FSL 1513 FEL
43-047-53420	NBU 922-33O4BS	Sec 33	T09S R22E	0654 FSL 1520 FEL
43-047-53421	NBU 922-33O1CS	Sec 33	T09S R22E	0668 FSL 1506 FEL
43-047-53422	NBU 922-33P4CS	Sec 33	T09S R22E	0652 FSL 0381 FEL
43-047-53423	NBU 922-33P4BS	Sec 33	T09S R22E	0648 FSL 0390 FEL
43-047-53424	NBU 922-33K4CS	Sec 33	T09S R22E	0886 FSL 2267 FWL
43-047-53425	NBU 922-33O1BS	Sec 33	T09S R22E	0676 FSL 1499 FEL
43-047-53426	NBU 922-33J4CS	Sec 33	T09S R22E	0683 FSL 1493 FEL
43-047-53427	NBU 922-33N4CS	Sec 33	T09S R22E	0870 FSL 2255 FWL
43-047-53428	NBU 922-33N1BS	Sec 33	T09S R22E	0878 FSL 2261 FWL
43-047-53429	NBU 922-33J4BS	Sec 33	T09S R22E	0691 FSL 1486 FEL
43-047-53430	NBU 922-33N4BS	Sec 33	T09S R22E	0862 FSL 2249 FWL
43-047-53431	NBU 921-17C1CS	Sec 17	T09S R21E	0620 FNL 2019 FWL
43-047-53432	NBU 921-17C1BS	Sec 17	T09S R21E	0625 FNL 2010 FWL
43-047-53433	NBU 921-17B1BS	Sec 17	T09S R21E	0465 FNL 1960 FEL
43-047-53434	NBU 921-17A1CS	Sec 17	T09S R21E	0463 FNL 1940 FEL
43-047-53435	NBU 921-17B4BS	Sec 17	T09S R21E	0467 FNL 1970 FEL
43-047-53436	NBU 921-17A1BS	Sec 17	T09S R21E	0464 FNL 1950 FEL

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 12/14/2012

API NO. ASSIGNED: 43047534160000

WELL NAME: NBU 922-33P1CS

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

PHONE NUMBER: 720 929-6086

CONTACT: Gina Becker

PROPOSED LOCATION: SESE 33 090S 220E

Permit Tech Review:

SURFACE: 0657 FSL 0372 FEL

Engineering Review:

BOTTOM: 0972 FSL 0449 FEL

Geology Review:

COUNTY: UINTAH

LATITUDE: 39.98698

LONGITUDE: -109.43684

UTM SURF EASTINGS: 633459.00

NORTHINGS: 4427482.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-01191

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

Commingle 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 - Commingle - 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 922-33P1CS
API Well Number: 43047534160000
Lease Number: UTU-01191
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. UTU01191
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 Contact: CARA MAHLER Email: cara.mahler@anadarko.com		7. If Unit or CA Agreement, Name and No. 891008900A
3a. Address 1368 SOUTH 1200 EAST VERNAL, UT 84078		8. Lease Name and Well No. NBU 922-33P1CS
3b. Phone No. (include area code) Ph: 720-929-6029 Fx: 720-929-7029		9. API Well No. 43047-5341
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SESE 657FSL 372FEL 39.987070 N Lat, 109.436901 W Lon At proposed prod. zone SESE 972FSL 449FEL 39.987934 N Lat, 109.437175 W Lon		10. Field and Pool, or Exploratory NATURAL BUTTES
14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 50 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) 351	16. No. of Acres in Lease 1041.78	12. County or Parish UINTAH
17. Spacing Unit dedicated to this well	13. State UT	
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 229	19. Proposed Depth 10109 MD 10088 TVD	20. BLM/BIA Bond No. on file WYB000291
21. Elevations (Show whether DF, KB, RT, GL, etc.) 4997 GL	22. Approximate date work will start 05/01/2012	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:

- | | |
|---|--|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. 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 JUN 04 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.

Additional Operator Remarks (see next page)

Electronic Submission #160429 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 11/18/2012 (13JM0117AE)

RECEIVED
JUN 20 2013

NOTICE OF APPROVAL

DIV. OF OIL, GAS & MINING

** BLM REVISED **

Additional Operator Remarks:

The following wells are also on the NBU 922-33P Pad:

NBU 922-33I4CS
NBU 922-33P1BS
NBU 922-33P1CS
NBU 922-33P4BS
NBU 922-33P4CS

The filing fee for this well will be hand delivered or sent via overnight UPS delivery.

Please contact Cara Mahler at 720-929-6029, or via email at cara.mahler@anadarko.com with any questions, comments or concerns regarding this application.

Revisions to Operator-Submitted EC Data for APD #160429

Operator Submitted

Lease: UTU01191
Agreement: UTU63047A
Operator: KERR MCGEE OIL & GAS LP
PO BOX 173779
DENVER, CO 80202-3779
Ph: 720-929-6000

Admin Contact: CARA MAHLER
REGULATORY ANALYST
1099 18TH STREET SUITE 1800
DENVER, CO 80202
Ph: 720-929-6029
Fx: 720-929-7029
E-Mail: cara.mahler@anadarko.com

Tech Contact: CARA MAHLER
REGULATORY ANALYST
1099 18TH STREET SUITE 1800
DENVER, CO 80202

Well Name: NBU
Number: 922-33P1CS

Location:
State: UT
County: UINTAH
S/T/R: Sec 33 T9S R22E Mer SLB
Surf Loc: SESE 657FSL 372FEL 39.987070 N Lat, 109.436901 W Lon

Field/Pool: NATURAL BUTTES

Bond: WYB000291

BLM Revised (AFMSS)

UTU01191
891008900A (UTU63047A)
KERR MCGEE OIL & GAS ONSHORE L
1368 SOUTH 1200 EAST
VERNAL, UT 84078
Ph: 435.789.3995

CARA MAHLER
REGULATORY ANALYST
1368 SOUTH 1200 EAST
VERNAL, UT 84078
Ph: 720-929-6029
Fx: 720-929-7029
E-Mail: cara.mahler@anadarko.com

CARA MAHLER
REGULATORY ANALYST
1368 SOUTH 1200 EAST
VERNAL, UT 84078

NBU
922-33P1CS

UT
UINTAH
Sec 33 T9S R22E Mer SLB
SESE 657FSL 372FEL 39.987070 N Lat, 109.436901 W Lon

NATURAL BUTTES

WYB000291



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	Location:	SESE SEC. 33 T9S R22E
Well No:	NBU 922-33P1CS	Lease No:	UTU01191
API No:	43-047-53416	Agreement:	UTU63047A

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)**

- 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.
- 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 cattleguards, including upgrading cattleguard 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 cattleguard and gate installed per BLM guidance.
- 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.

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

SITE SPECIFIC DOWNHOLE COAs:

1. Gamma Ray Log shall be run from total Depth to Surface.
2. CBL will be run from TD to TOC.
3. Cement for the surface casing will be circulated to the surface.

Variances Granted

Air Drilling

All variances approved as written in APD

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 by CD (compact disc). 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 (¼¼, 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
5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-01191	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES	
8. WELL NAME and NUMBER: NBU 922-33P1CS	
9. API NUMBER: 43047534160000	
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	1. TYPE OF WELL Gas Well
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6511
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0657 FSL 0372 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE 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: 12/27/2013	<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 43047534160000

API: 43047534160000

Well Name: NBU 922-33P1CS

Location: 0657 FSL 0372 FEL QTR SESE 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
5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-01191	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES	
8. WELL NAME and NUMBER: NBU 922-33P1CS	
9. API NUMBER: 43047534160000	
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: 720 929-6100
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0657 FSL 0372 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE 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: 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 43047534160000

API: 43047534160000

Well Name: NBU 922-33P1CS

Location: 0657 FSL 0372 FEL QTR SESE 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

MAY 07 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.



5. Lease Serial No.
UTU01191

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
UTU63047A

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

8. Well Name and No.
NBU 922-33P1CS

9. API Well No.
43-047-53416

10. Field and Pool, or Exploratory
NATURAL BUTTES

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

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator Contact: JENNIFER THOMAS
KERR MCGEE OIL & GAS ONSHORE-Mail: JENNIFER.THOMAS@ANADARKO.COM

3a. Address P.O. BOX 173779 1099 18TH STREET, SUITE 600
DENVER, CO 80217

3b. Phone No. (include area code)
Ph: 720-929-6808

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 33 T9S R22E Mer SLB SESE

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- 6/4/13

NEPA- 2013-74 EA

VERNAL FIELD OFFICE

ENG. *RJA 6/2/15*

GEOL. _____

E.S. _____

PET. _____

RECL. _____

RECEIVED

JUN 15 2015

DIV. OF OIL, GAS & MINING

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

**Electronic Submission #301079 verified by the BLM Well Information System
For KERR MCGEE OIL & GAS ONSHORE, sent to the Vernal
Committed to AFMSS for processing by JOHNETTA MAGEE on 05/11/2015 ()**

Name (Printed/Typed) JENNIFER THOMAS

Title REGULATORY SPECIALIST

Signature (Electronic Submission)

Date 05/07/2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By *J. Thomas*

Assistant Field Manager
Title Lands & Mineral Resources

JUN 05 2015

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.

VERNAL FIELD OFFICE

Office

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.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED**



CONDITIONS OF APPROVAL

Kerr McGee Oil and Gas Onshore LP.

Notice of Intent APD Extension

Lease: UTU-01191
Well: NBU 922-33P1CS
Location: SESE Sec 33-T9S-R22E

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

1. The extension and APD shall expire on 06/04/2017.
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
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
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: 720 929-6507	8. WELL NAME and NUMBER: NBU 922-33P1CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0657 FSL 0372 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 33 Township: 09.0S Range: 22.0E Meridian: S	9. API NUMBER: 43047534160000
	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: 12/4/2015	<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 43047534160000

API: 43047534160000

Well Name: NBU 922-33P1CS

Location: 0657 FSL 0372 FEL QTR SESE 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
5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-01191	
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.	
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9. API NUMBER: 43047534160000	
9. FIELD and POOL or WILDCAT: NATURAL BUTTES	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 PHONE NUMBER: 720 929-6454	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0657 FSL 0372 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 33 Township: 09.0S Range: 22.0E Meridian: S	
COUNTY: UINTAH	
STATE: UTAH	

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

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

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

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 43047534160000

API: 43047534160000

Well Name: NBU 922-33P1CS

Location: 0657 FSL 0372 FEL QTR SESE 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

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- 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: Candice Barber

Date: 11/3/2016

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