

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

FORM 3

AMENDED REPORT 

<b>APPLICATION FOR PERMIT TO DRILL</b>						<b>1. WELL NAME and NUMBER</b> NBU 922-34H1BS				
<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						<b>3. FIELD OR WILDCAT</b> NATURAL BUTTES				
<b>4. TYPE OF WELL</b> Gas Well      Coalbed Methane Well: NO						<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b> NATURAL BUTTES				
<b>6. NAME OF OPERATOR</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.						<b>7. OPERATOR PHONE</b> 720 929-6515				
<b>8. ADDRESS OF OPERATOR</b> P.O. Box 173779, Denver, CO, 80217						<b>9. OPERATOR E-MAIL</b> julie.jacobson@anadarko.com				
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> UTU-0149077			<b>11. MINERAL OWNERSHIP</b> FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			<b>12. SURFACE OWNERSHIP</b> FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>				
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b>						<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b>				
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b>						<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>				
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>			<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>			<b>19. SLANT</b> VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
<b>20. LOCATION OF WELL</b>		<b>FOOTAGES</b>		<b>QTR-QTR</b>	<b>SECTION</b>	<b>TOWNSHIP</b>	<b>RANGE</b>	<b>MERIDIAN</b>		
LOCATION AT SURFACE		1331 FNL 765 FEL		SENE	34	9.0 S	22.0 E	S		
Top of Uppermost Producing Zone		1418 FNL 494 FEL		SENE	34	9.0 S	22.0 E	S		
At Total Depth		1418 FNL 494 FEL		SENE	34	9.0 S	22.0 E	S		
<b>21. COUNTY</b> UINTAH			<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 494			<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 600				
<b>27. ELEVATION - GROUND LEVEL</b> 4854			<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 276			<b>26. PROPOSED DEPTH</b> MD: 8833 TVD: 8816				
<b>28. BOND NUMBER</b> WYB000291			<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> 43-8496							
<b>Hole, Casing, and Cement Information</b>										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	11	8.625	0 - 2310	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 - 8833	11.6	I-80 LT&C	12.0	Premium Lite High Strength	300	3.38	12.0
							50/50 Poz	1200	1.31	14.3
<b>ATTACHMENTS</b>										
<b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
<b>NAME</b> Gina Becker			<b>TITLE</b> Regulatory Analyst II			<b>PHONE</b> 720 929-6086				
<b>SIGNATURE</b>			<b>DATE</b> 05/08/2013			<b>EMAIL</b> gina.becker@anadarko.com				
<b>API NUMBER ASSIGNED</b> 43047537400000			<b>APPROVAL</b>			 Permit Manager				

**Kerr-McGee Oil & Gas Onshore. L.P.****NBU 922-34H1BS**

Surface:	1331 FNL / 765 FEL	SENE
BHL:	1418 FNL / 494 FEL	SENE

Section 34 T9S R22E

Uintah County, Utah  
Mineral Lease: UTU-0149077

**ONSHORE ORDER NO. 1****DRILLING PROGRAM**

1. & 2. **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	1,115'	
Birds Nest	1,408'	Water
Mahogany	1,861'	Water
Wasatch	4,255'	Gas
Mesaverde	6,560'	Gas
Sego	8,816'	Gas
TVD	8,816'	
TD	8,833'	

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 Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. **Evaluation Program:**

Please refer to the attached Drilling Program

1/10/2013

RECEIVED: May 07, 2013

**7. Abnormal Conditions:**

Maximum anticipated bottom hole pressure calculated at 8816' TVD, approximately equals  
5,378 psi 0.61 psi/ft = actual bottomhole gradient

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

Maximum anticipated surface pressure equals approximately 3,461 psi (bottom hole pressure  
minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

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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 Drilling Program.

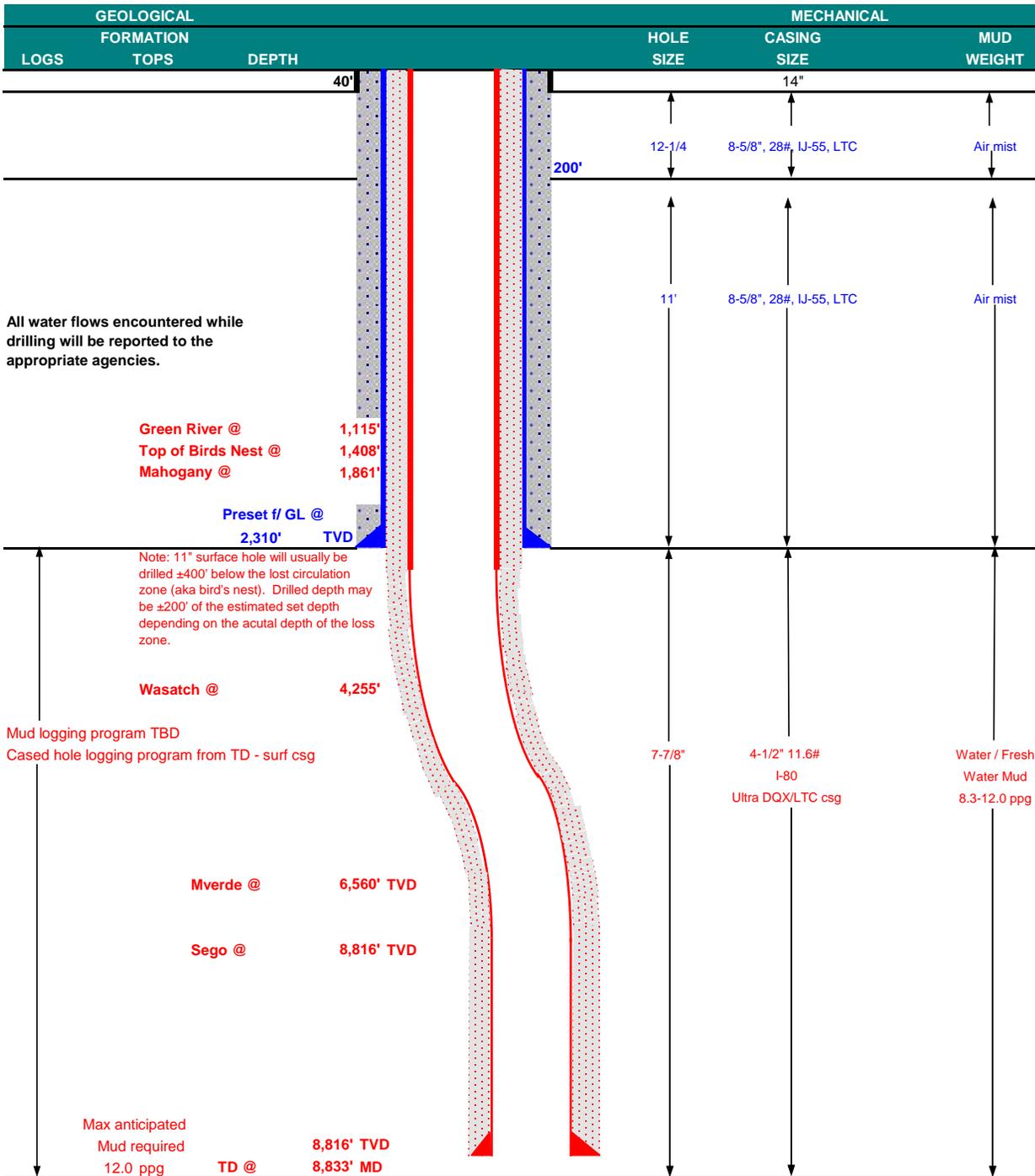
1/10/2013

RECEIVED: May 07, 2013



## KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	January 10, 2013			
WELL NAME	<b>NBU 922-34H1BS</b>		TD	8,816'	TVD	8,833' MD	
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION	4,854'
SURFACE LOCATION	SENE	1331 FNL	765 FEL	Sec 34	T 9S	R 22E	
	Latitude: 39.996113		Longitude: -109.419432		NAD 83		
BTM HOLE LOCATION	SENE	1418 FNL	494 FEL	Sec 34	T 9S	R 22E	
	Latitude: 39.995871		Longitude: -109.418465		NAD 83		
OBJECTIVE ZONE(S)	Wasatch/Mesaverde						
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.						





**KERR-McGEE OIL & GAS ONSHORE LP**  
**DRILLING PROGRAM**

**CASING PROGRAM**

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS			
						BURST	LTC		DQX
							COLLAPSE	TENSION	
CONDUCTOR	14"	0-40'							
SURFACE	8-5/8"	0 to 2,310	28.00	IJ-55	LTC	3,390	1,880	348,000	N/A
						2.34	1.74	6.14	N/A
PRODUCTION	4-1/2"	0 to 5,000	11.60	I-80	DQX	7,780	6,350	223,000	267,035
						1.11	1.15		3.19
						7,780	6,350	223,000	267,035
	4-1/2"	5,000 to 8,833'	11.60	I-80	LTC	1.11	1.15	6.14	

**Surface casing:**

(Burst Assumptions: TD = 12.0 ppg) 0.73 psi/ft = frac gradient @ surface shoe  
 Fracture at surface shoe with 0.1 psi/ft gas gradient above  
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing\*Buoy.Fact. of water)

**Production casing:**

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.61 psi/ft = bottomhole gradient  
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing\*Buoy.Fact. of water)

**CEMENT PROGRAM**

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT		YIELD
SURFACE Option 1	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80		1.15
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80		1.15
<b>NOTE: If well will circulate water to surface, option 2 will be utilized</b>								
SURFACE Option 2	LEAD	1,810'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	170	35%	11.00		3.82
	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.80		1.15
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80		1.15
PRODUCTION	LEAD	3,753'	Premium Lite II + 0.25 pps celloflake + .4% FL-52 + .3% R-3 + .5 lbs/sk Kol-Seal + 6%Bentonite II + 1.2% Sodium Metasilicate + .05 lbs/sk Static Free	300	35%	12.00		3.38
	TAIL	5,080'	50/50 Poz/G + 10% salt + .05 lbs/sk Static Free + 1.2% Sodium Metasilicate + .5 % EC-1 +.002 gps FP-6L + 2% Bentonite II	1,200	35%	14.30		1.31

\*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained  
 \*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

**FLOAT EQUIPMENT & CENTRALIZERS**

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well. 1 centralizer on the first 3 joints and one every third joint thereafter.

**ADDITIONAL INFORMATION**

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

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

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

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

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

**DRILLING ENGINEER:**

Nick Spence / John Tuckwiller / Brian Cocchiere / Tyler Elliott

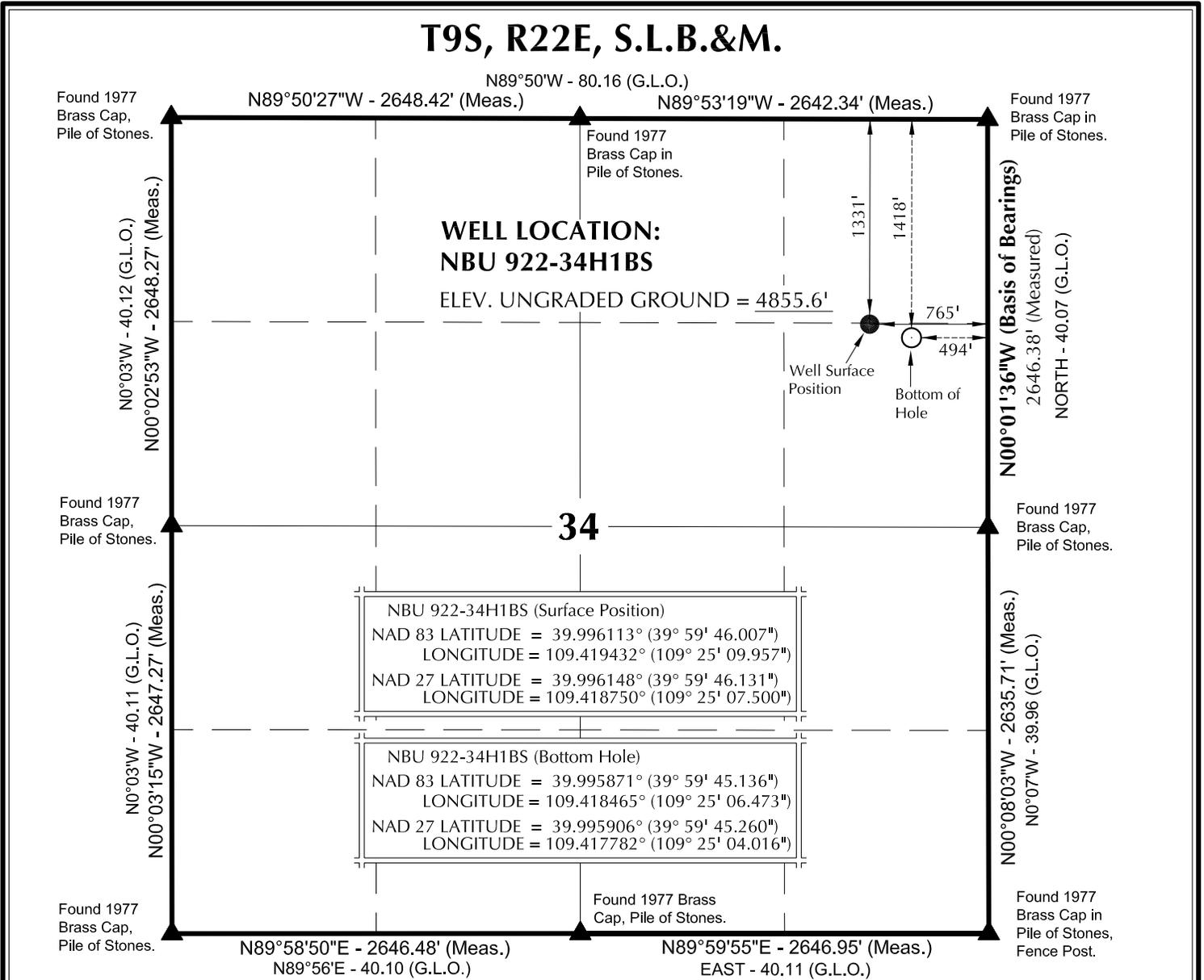
**DATE:**

**DRILLING SUPERINTENDENT:**

Kenny Gathings / Lovel Young

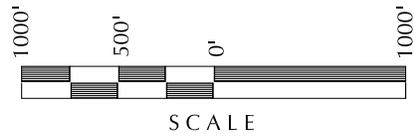
**DATE:**

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



**NOTES:**

- ▲ = Section Corners Located
- 1. Well footages are measured at right angles to the Section Lines.
- 2. G.L.O. distances are shown in feet or chains.  
1 chain = 66 feet.
- 3. The Bottom of hole bears S72°01'31"E 285.16' 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.

*John R. Laugh*  
 PROFESSIONAL LAND SURVEYOR  
 REGISTRATION No. 6028691  
 STATE OF UTAH

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

**WELL PAD: NBU 922-34H**

**NBU 922-34H1BS  
 WELL PLAT  
 1418' FNL, 494' FEL (Bottom Hole)  
 SE ¼ NE ¼ OF SECTION 34, T9S, R22E,  
 S.L.B.&M., UTAH COUNTY, UTAH.**



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

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

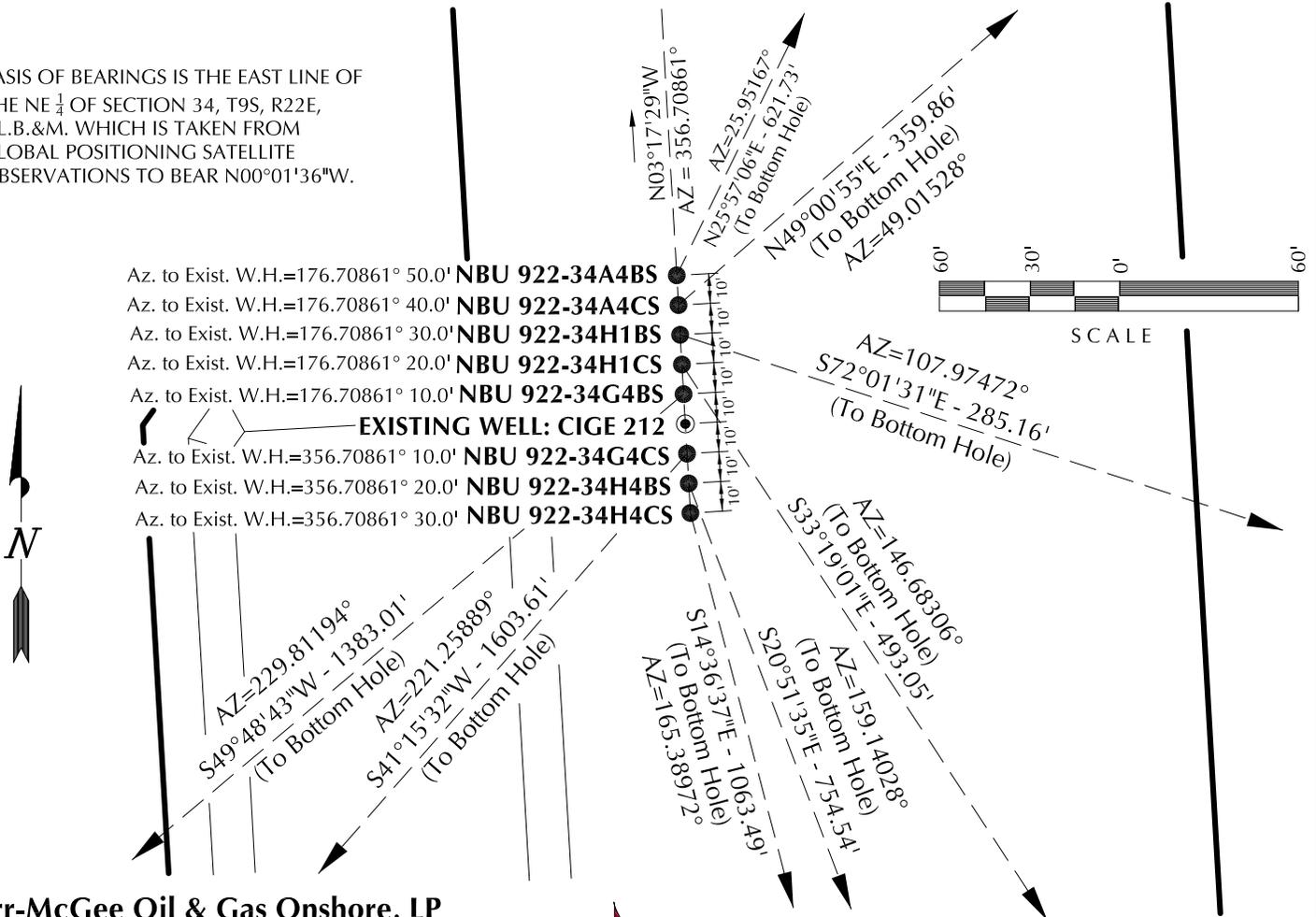
DATE SURVEYED: 5-14-12	SURVEYED BY: A.F.	SHEET NO: <b>6</b>
DATE DRAWN: 6-15-12	DRAWN BY: J.G.C.	
SCALE: 1" = 1000'		6 OF 20

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
NBU 922-34H4CS	39°59'45.415"	109°25'09.913"	39°59'45.539"	109°25'07.456"	1390' FNL 762' FEL	39°59'35.246"	109°25'06.474"	39°59'35.371"	109°25'04.017"	2419' FNL 494' FEL
NBU 922-34H4BS	39°59'45.513"	109°25'09.920"	39°59'45.638"	109°25'07.463"	1380' FNL 762' FEL	39°59'38.546"	109°25'06.474"	39°59'38.671"	109°25'04.017"	2085' FNL 494' FEL
NBU 922-34G4CS	39°59'45.612"	109°25'09.928"	39°59'45.737"	109°25'07.470"	1370' FNL 763' FEL	39°59'33.707"	109°25'23.519"	39°59'33.832"	109°25'21.062"	2578' FNL 1821' FEL
NBU 922-34G4BS	39°59'45.809"	109°25'09.942"	39°59'45.934"	109°25'07.485"	1350' FNL 764' FEL	39°59'36.997"	109°25'23.519"	39°59'37.122"	109°25'21.062"	2245' FNL 1821' FEL
NBU 922-34H1CS	39°59'45.908"	109°25'09.950"	39°59'46.033"	109°25'07.492"	1341' FNL 765' FEL	39°59'41.836"	109°25'06.473"	39°59'41.961"	109°25'04.016"	1752' FNL 494' FEL
NBU 922-34H1BS	39°59'46.007"	109°25'09.957"	39°59'46.131"	109°25'07.500"	1331' FNL 765' FEL	39°59'45.136"	109°25'06.473"	39°59'45.260"	109°25'04.016"	1418' FNL 494' FEL
NBU 922-34A4CS	39°59'46.105"	109°25'09.964"	39°59'46.230"	109°25'07.507"	1321' FNL 766' FEL	39°59'48.436"	109°25'06.473"	39°59'48.560"	109°25'04.016"	1084' FNL 494' FEL
NBU 922-34A4BS	39°59'46.204"	109°25'09.971"	39°59'46.328"	109°25'07.514"	1311' FNL 766' FEL	39°59'51.726"	109°25'06.473"	39°59'51.850"	109°25'04.016"	751' FNL 494' FEL
CIGE 212	39°59'45.711"	109°25'09.935"	39°59'45.835"	109°25'07.478"	1360' FNL 763' 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 922-34H4CS	-1,029.1'	268.3'	NBU 922-34H4BS	-705.1'	268.7'	NBU 922-34G4CS	-1,205.5'	-1,057.5'	NBU 922-34G4BS	-892.5'	-1,056.5'
NBU 922-34H1CS	-412.0'	270.8'	NBU 922-34H1BS	-88.0'	271.2'	NBU 922-34A4CS	236.0'	271.7'	NBU 922-34A4BS	559.0'	272.1'

BASIS OF BEARINGS IS THE EAST LINE OF THE NE 1/4 OF SECTION 34, T9S, R22E, S.L.B.&M. WHICH IS TAKEN FROM GLOBAL POSITIONING SATELLITE OBSERVATIONS TO BEAR N00°01'36"W.



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

WELL PAD - NBU 922-34H

WELL PAD INTERFERENCE PLAT  
WELLS - NBU 922-34H4CS, NBU 922-34H4BS,  
NBU 922-34G4CS, NBU 922-34G4BS,  
NBU 922-34H1CS, NBU 922-34H1BS,  
NBU 922-34A4CS & NBU 922-34A4BS  
LOCATED IN SECTION 34, 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

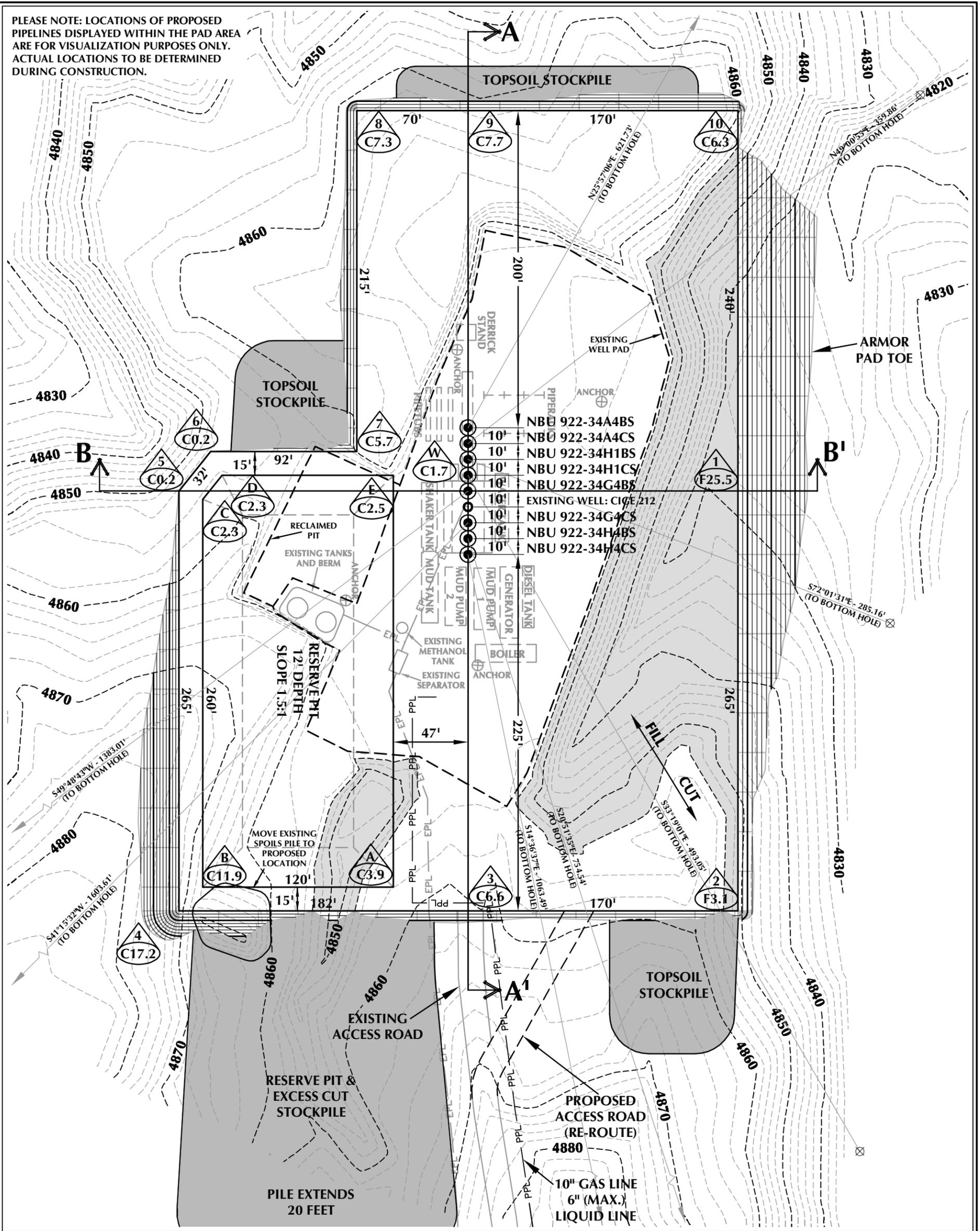
TIMBERLINE

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

(435) 789-1365

DATE SURVEYED: 5-14-12	SURVEYED BY: A.F.	SHEET NO: <b>9</b>
DATE DRAWN: 6-15-12	DRAWN BY: J.G.C.	
SCALE: 1" = 60'		9 OF 20
Date Last Revised: 7-9-12 M.W.W.		

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 922-34H DESIGN SUMMARY**

EXISTING GRADE @ CENTER OF WELL PAD = 4855.7'  
 FINISHED GRADE ELEVATION = 4854.0'  
 CUT SLOPES = 1:1  
 FILL SLOPES = 1.5:1  
 TOTAL WELL PAD AREA = 4.12 ACRES  
 TOTAL DISTURBANCE AREA = 5.26 ACRES  
 SHRINKAGE FACTOR = 1.10  
 SWELL FACTOR = 1.00

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

**WELL PAD - NBU 922-34H**

WELL PAD - LOCATION LAYOUT  
 NBU 922-34H4CS, NBU 922-34H4BS,  
 NBU 922-34G4CS, NBU 922-34G4BS,  
 NBU 922-34H1CS, NBU 922-34H1BS,  
 NBU 922-34A4CS & NBU 922-34A4BS  
 LOCATED IN SECTION 34, T9S, R22E,  
 S.L.B.&M., UTAH COUNTY, UTAH



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

**WELL PAD QUANTITIES**

TOTAL CUT FOR WELL PAD = 24,007 C.Y.  
 TOTAL FILL FOR WELL PAD = 22,745 C.Y.  
 TOPSOIL @ 6" DEPTH = 2,465 C.Y.  
 EXCESS MATERIAL = 1,262 C.Y.

**RESERVE PIT QUANTITIES**

TOTAL CUT FOR RESERVE PIT  
 +/- 11,000 C.Y.  
 RESERVE PIT CAPACITY (2' OF FREEBOARD)  
 +/- 42,230 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

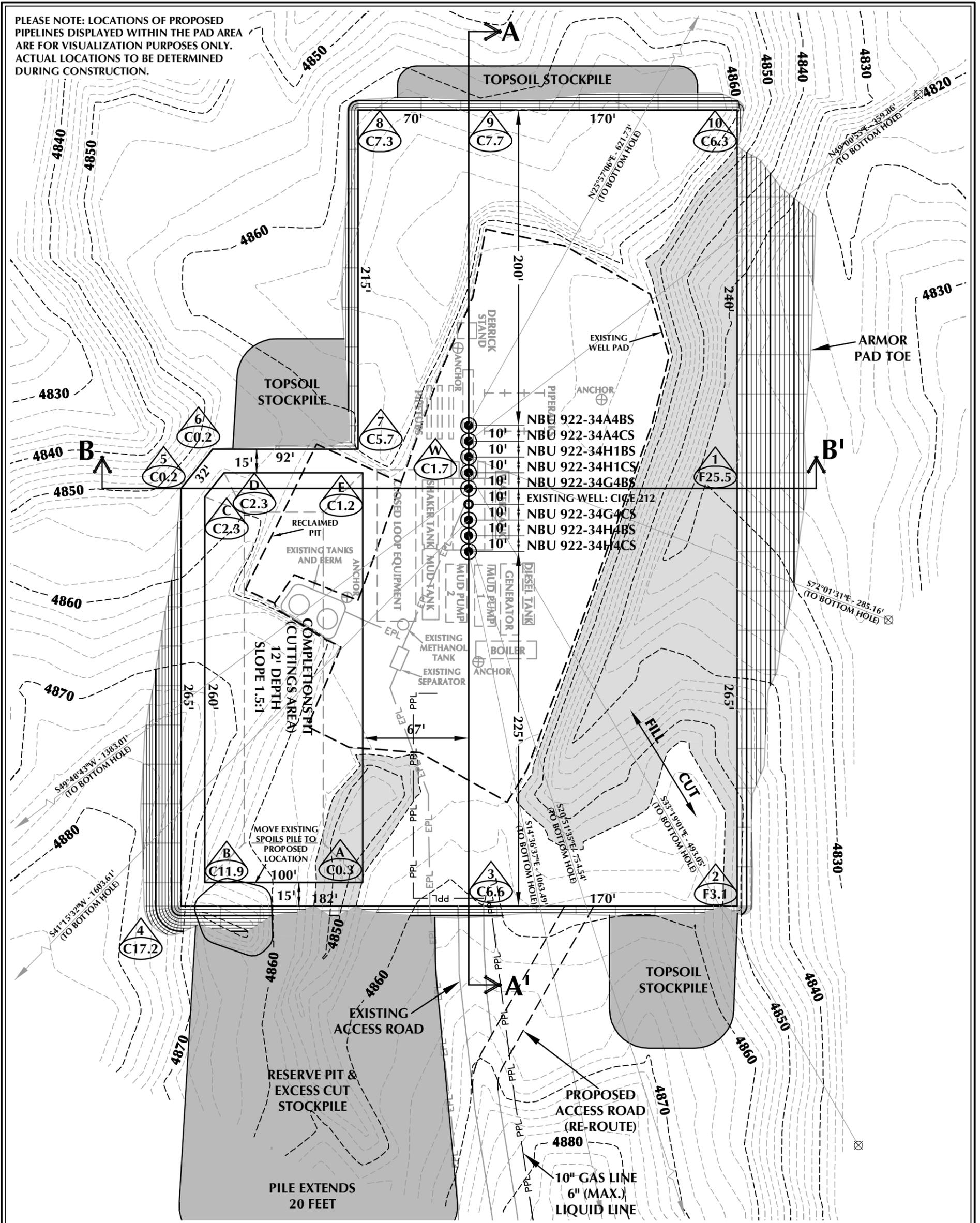


HORIZONTAL 0 30' 60' 1" = 60'  
 2' CONTOURS

SCALE: 1"=60' DATE: 7/10/12 SHEET NO:  
 REVISED: APF 8/23/12 **10** 10 OF 20

**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 922-34H (CLOSED LOOP) DESIGN SUMMARY**

EXISTING GRADE @ CENTER OF WELL PAD = 4855.7'  
 FINISHED GRADE ELEVATION = 4854.0'  
 CUT SLOPES = 1:1  
 FILL SLOPES = 1.5:1  
 TOTAL WELL PAD AREA = 4.12 ACRES  
 TOTAL DISTURBANCE AREA = 5.26 ACRES  
 SHRINKAGE FACTOR = 1.10  
 SWELL FACTOR = 1.00

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

**WELL PAD - NBU 922-34H**

WELL PAD - LOCATION LAYOUT  
 NBU 922-34H4CS, NBU 922-34H4BS,  
 NBU 922-34G4CS, NBU 922-34G4BS,  
 NBU 922-34H1CS, NBU 922-34H1BS,  
 NBU 922-34A4CS & NBU 922-34A4BS  
 LOCATED IN SECTION 34, 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

**WELL PAD QUANTITIES**

TOTAL CUT FOR WELL PAD = 24,007 C.Y.  
 TOTAL FILL FOR WELL PAD = 22,745 C.Y.  
 TOPSOIL @ 6" DEPTH = 2,465 C.Y.  
 EXCESS MATERIAL = 1,262 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

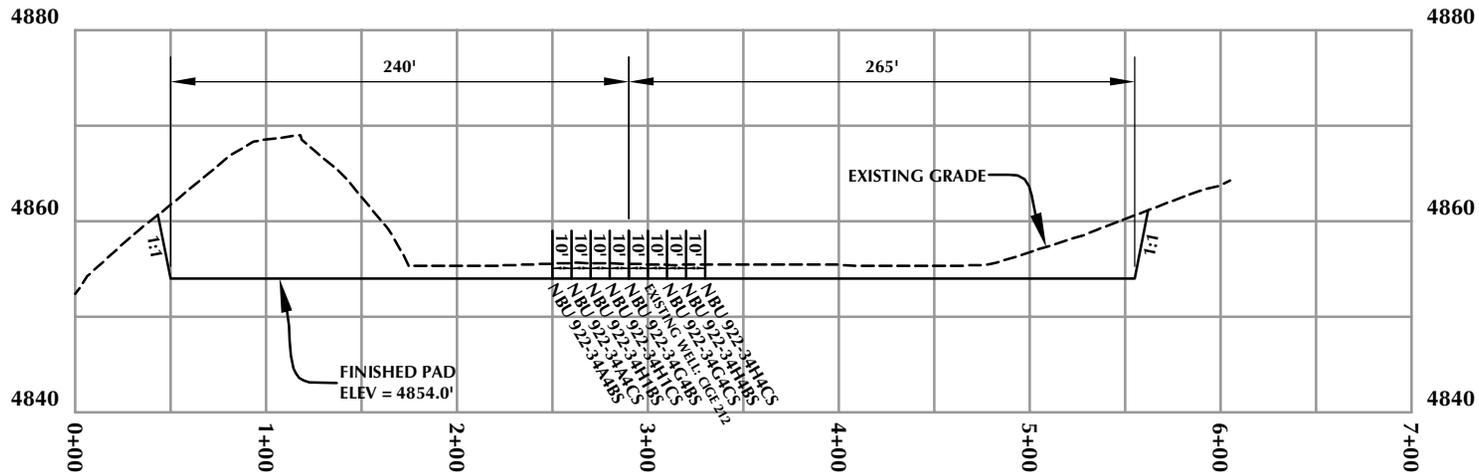


HORIZONTAL 0 30' 60' 1" = 60'

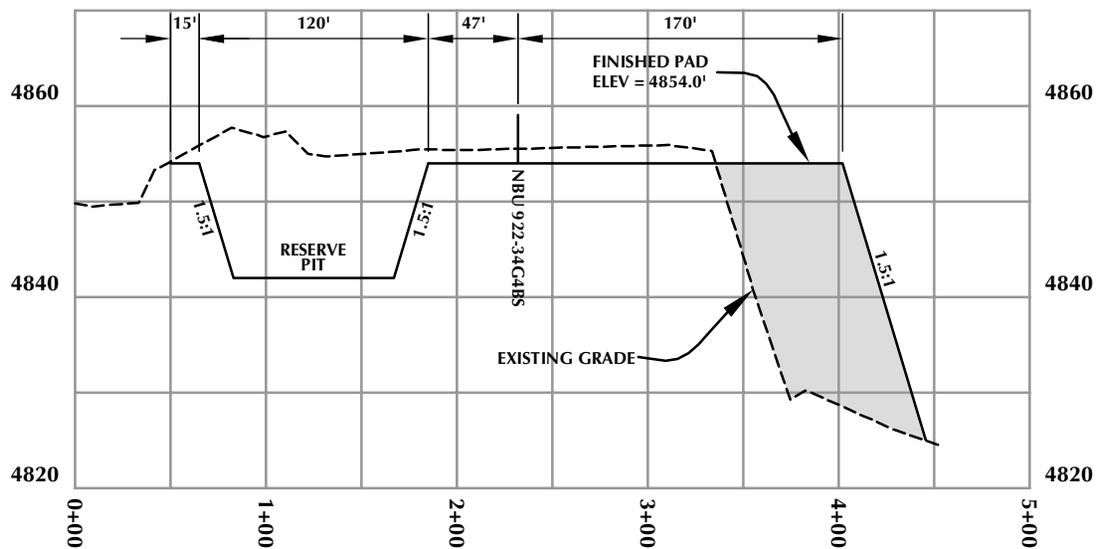
2' CONTOURS

SCALE: 1"=60' DATE: 9/19/12 SHEET NO:  
 REVISID: **10B** 10B OF 20

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



**CROSS SECTION A-A'**



**CROSS SECTION B-B'**

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

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

**WELL PAD - NBU 922-34H**

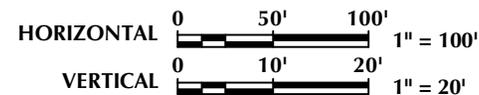
**WELL PAD - CROSS SECTIONS**  
NBU 922-34H4CS, NBU 922-34H4BS,  
NBU 922-34G4CS, NBU 922-34G4BS,  
NBU 922-34H1CS, NBU 922-34H1BS,  
NBU 922-34A4CS & NBU 922-34A4BS  
LOCATED IN SECTION 34, T9S, R22E,  
S.L.B.&M., UINTAH COUNTY, UTAH



**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: 7/10/12

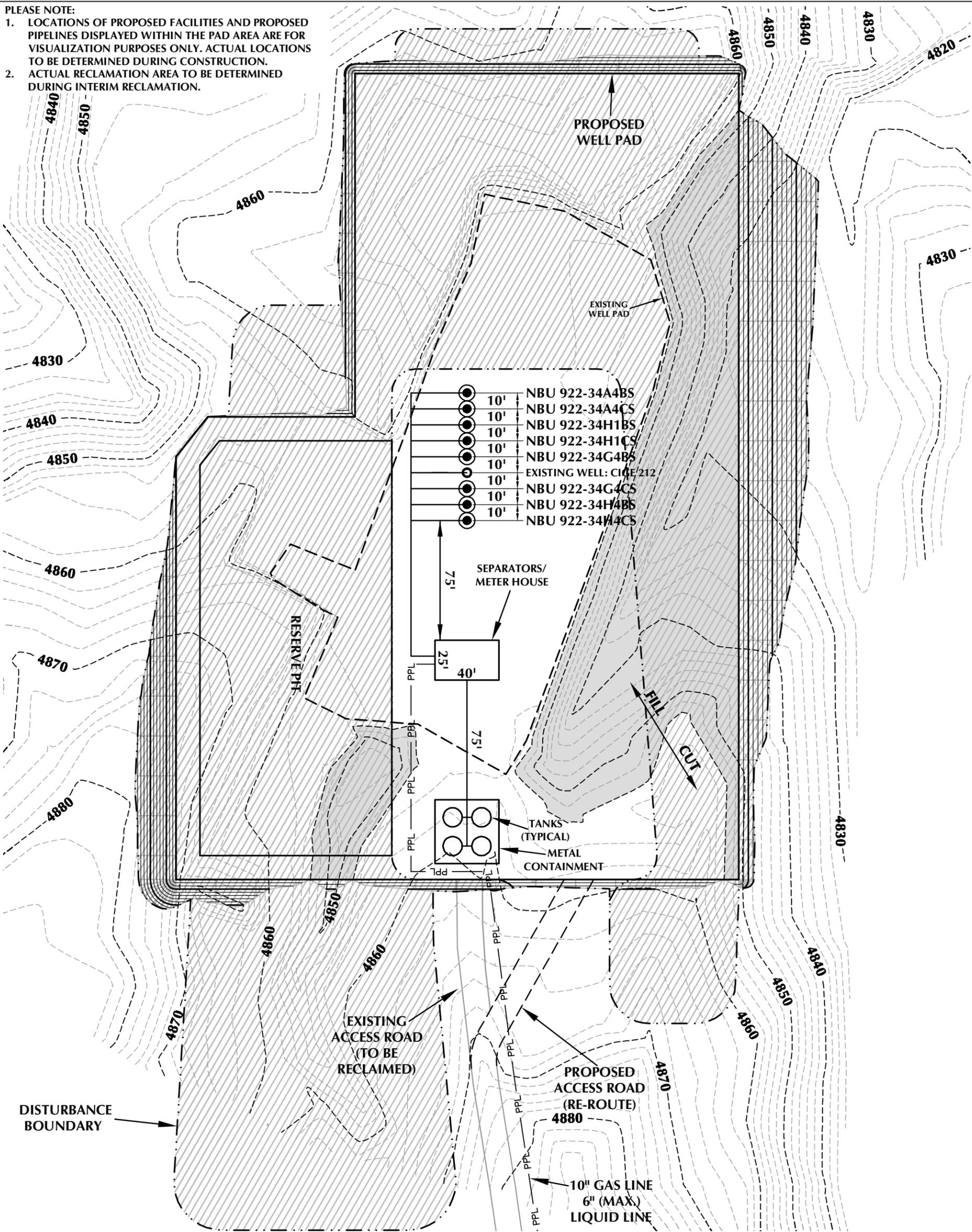
SHEET NO:

REVISED:

**11** 11 OF 20

**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 922-34H DESIGN SUMMARY**

TOTAL DISTURBANCE AREA = 5.26 ACRES (INCLUDING EXISTING)  
 RECLAMATION AREA = 4.12 ACRES  
 TOTAL WELL PAD AREA AFTER RECLAMATION = 1.14 ACRES

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

**WELL PAD - NBU 922-34H**

WELL PAD - RECLAMATION LAYOUT  
 NBU 922-34H4CS, NBU 922-34H4BS,  
 NBU 922-34G4CS, NBU 922-34G4BS,  
 NBU 922-34H1CS, NBU 922-34H1BS,  
 NBU 922-34A4CS & NBU 922-34A4BS  
 LOCATED IN SECTION 34, T9S, R22E,  
 S.L.B.&M., Uintah County, Utah



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

(435) 789-1365

**WELL PAD LEGEND**

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



HORIZONTAL 0 30' 60' 1" = 60'

2' CONTOURS

SCALE: 1"=60' DATE: 7/10/12 SHEET NO:  
 REVISED: APF 12 12 OF 20  
 8/23/12

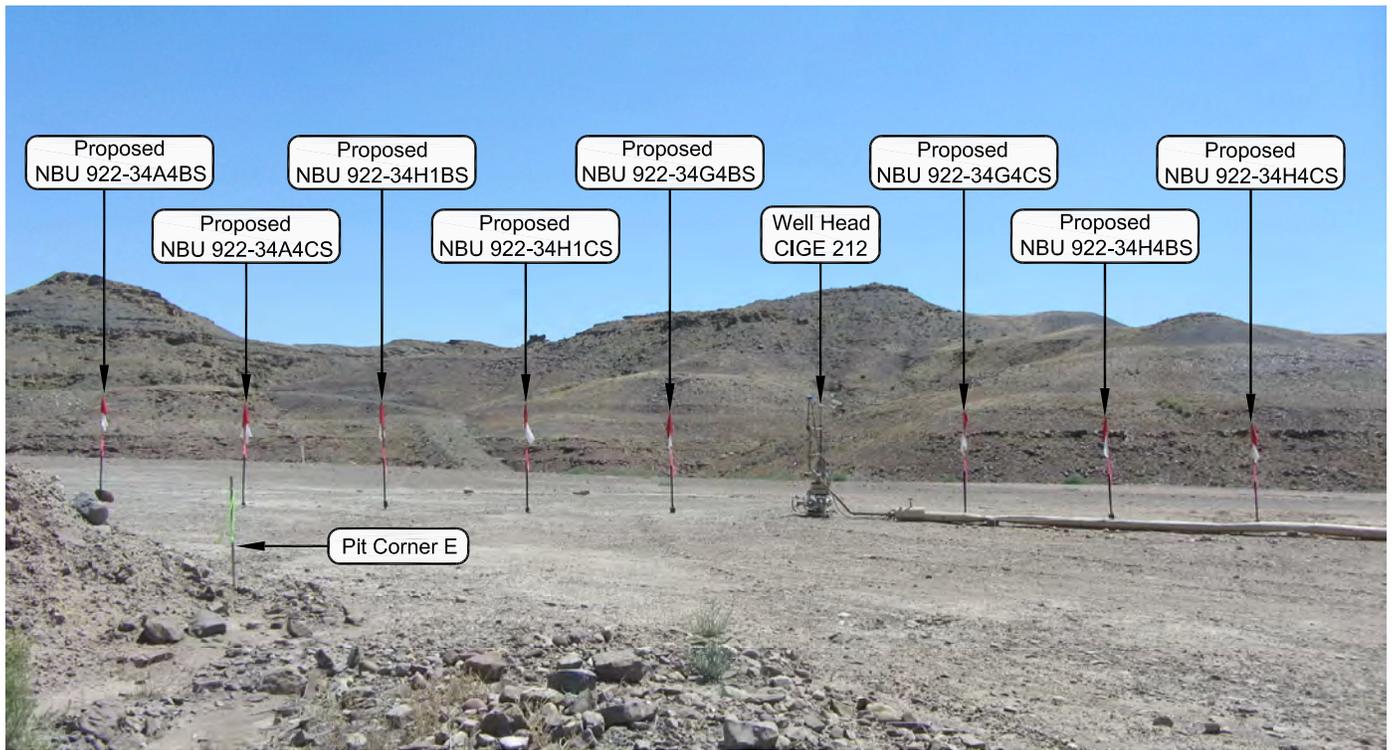


PHOTO VIEW: FROM PIT CORNER E TO LOCATION STAKE

CAMERA ANGLE: EASTERLY



PHOTO VIEW: FROM EXISTING ACCESS ROAD

CAMERA ANGLE: NORTHERLY

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

**WELL PAD - NBU 922-34H**

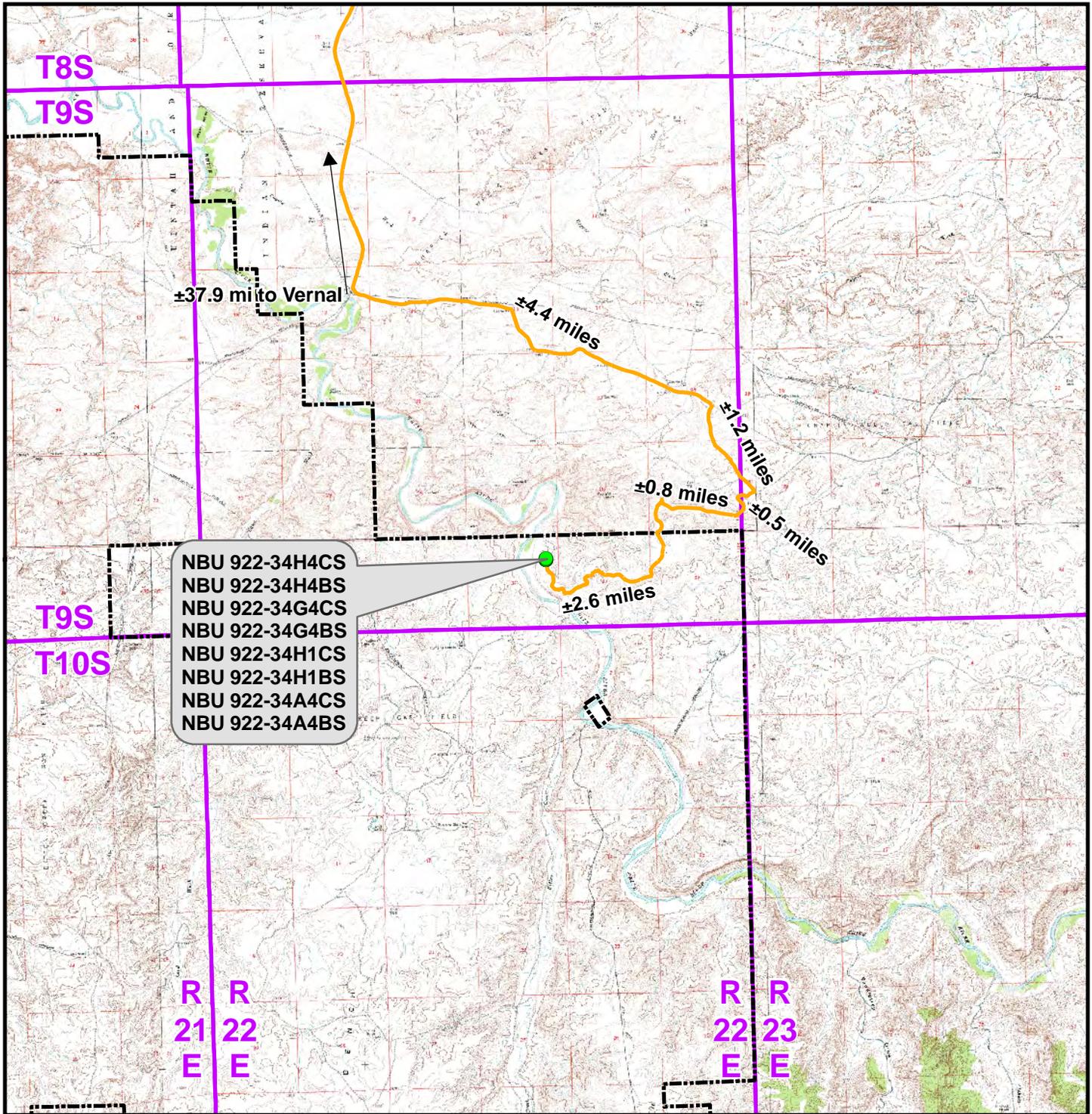
LOCATION PHOTOS  
 NBU 922-34H4CS, NBU 922-34H4BS,  
 NBU 922-34G4CS, NBU 922-34G4BS,  
 NBU 922-34H1CS, NBU 922-34H1BS,  
 NBU 922-34A4CS & NBU 922-34A4BS  
 LOCATED IN SECTION 34, T9S, R22E,  
 S.L.B.&M., Uintah County, Utah.



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

DATE PHOTOS TAKEN: 5-14-12	PHOTOS TAKEN BY: A.F.	SHEET NO: <b>13</b>
DATE DRAWN: 6-15-12	DRAWN BY: J.G.C.	
Date Last Revised: 7-9-12 M.W.W.		13 OF 20



File: K:\ANADARKO\2012\2012\_36\_NBU\_FOCUS\_922-34\GIS\Maps\_ABCDENBU\_922-34\NBU\_922-34H\_A.mxd, 9/22/2012 3:09:51 PM

**Legend**

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

Distance From Well Pad - NBU 922-34H To Unit Boundary: ±1,311ft

**WELL PAD - NBU 922-34H**

**TOPO A**

NBU 922-34H4CS, NBU 922-34H4BS,  
 NBU 922-34G4CS, NBU 922-34G4BS,  
 NBU 922-34H1CS, NBU 922-34H1BS,  
 NBU 922-34A4CS & NBU 922-34A4BS  
 LOCATED IN SECTION 34, T9S, R22E,  
 S.L.B.&M., UINTAH COUNTY, UTAH

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

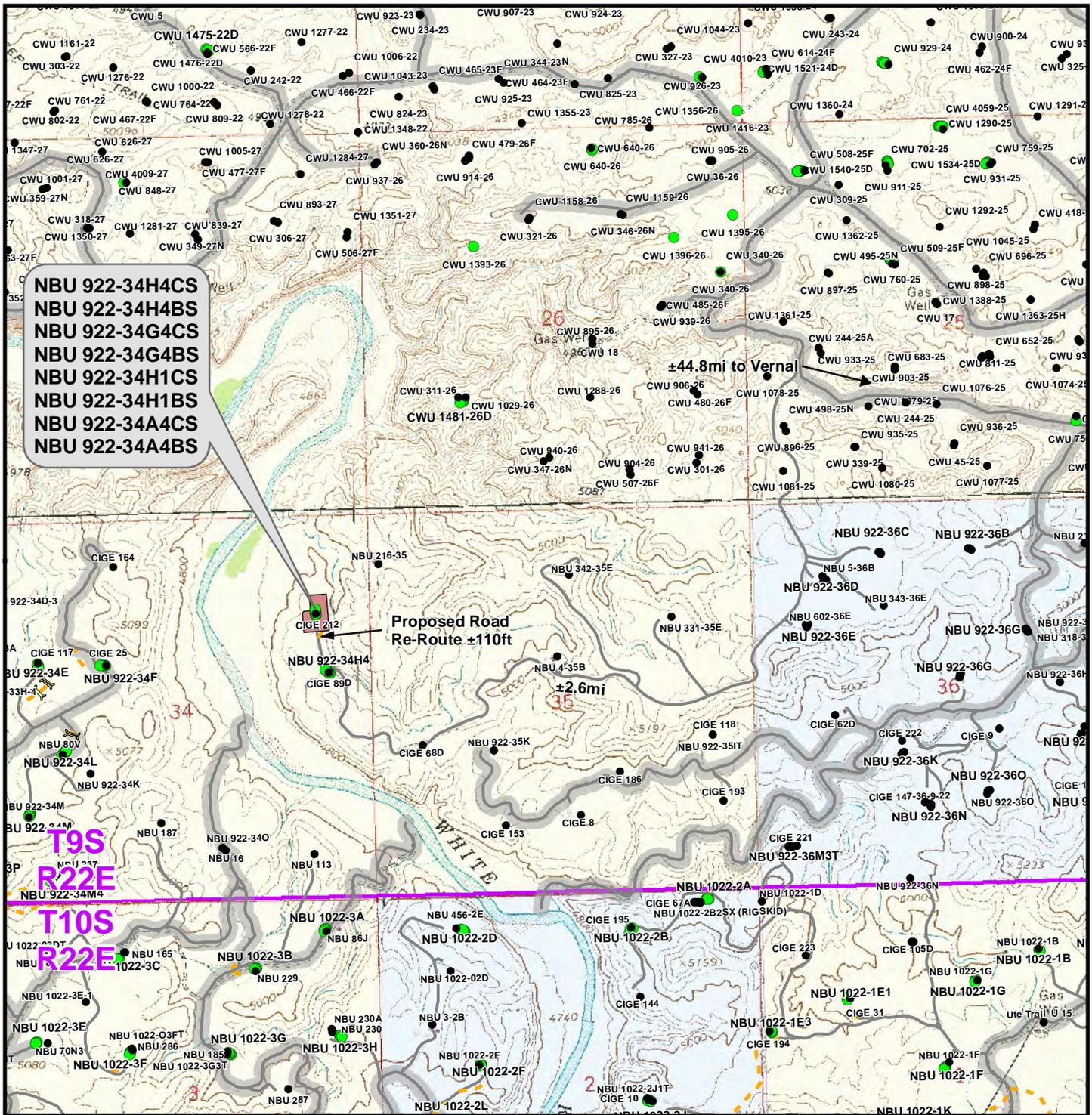
1099 18th Street  
 Denver, Colorado 80202



**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: 5 July 2012	<b>14</b>
REVISED:	DATE:	



File: K:\ANADARKO\2012\2012\_36\_NBU\_FOCUS\_922-34\GIS\Maps\_ABCDENBU\_922-34H\NBU\_922-34H\_B.mxd, 9/22/2012 1:39:17 PM

**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 Re-Route Length: ±110ft

**WELL PAD - NBU 922-34H**

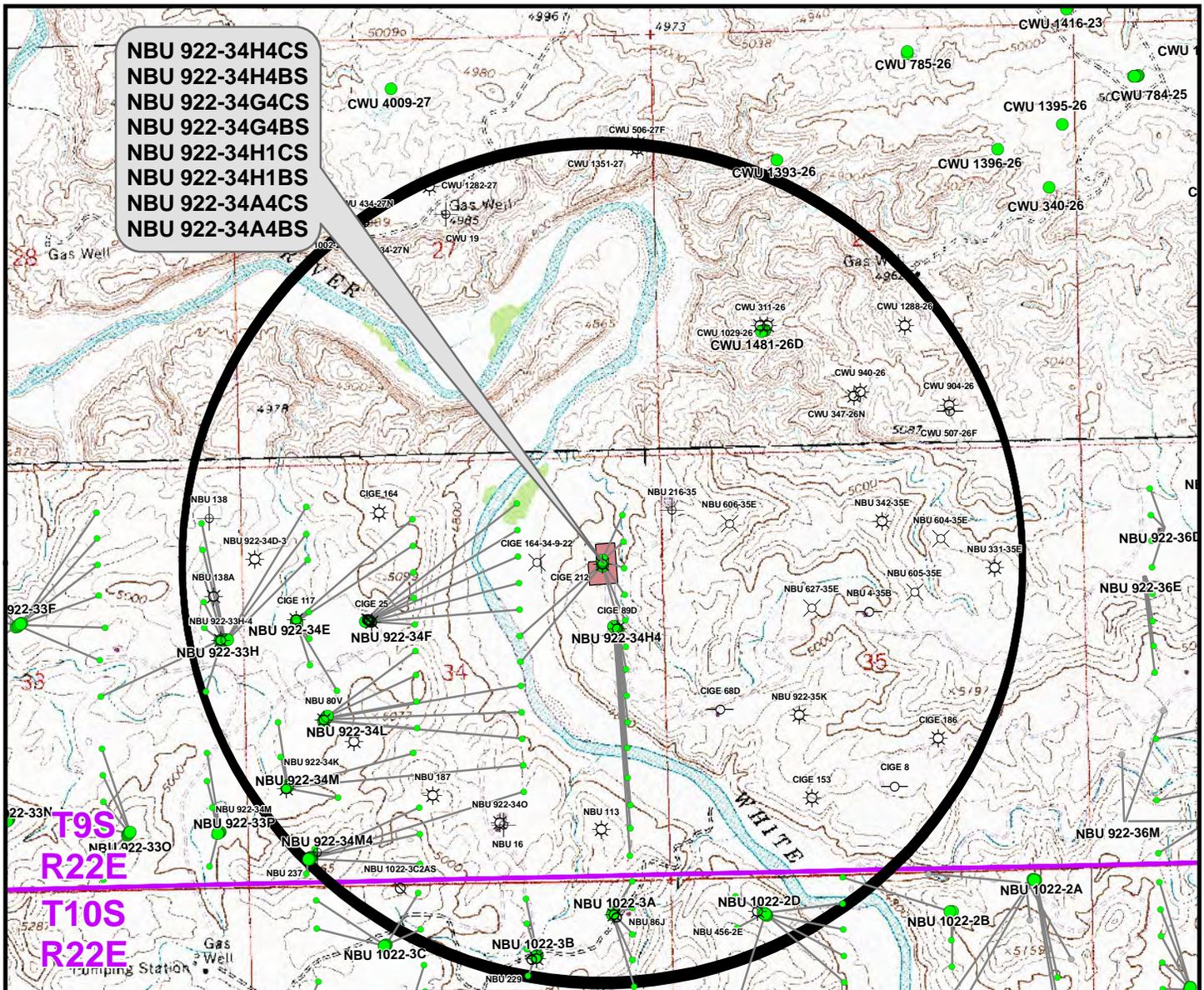
**TOPO B**  
 NBU 922-34H4CS, NBU 922-34H4BS,  
 NBU 922-34G4CS, NBU 922-34G4BS,  
 NBU 922-34H1CS, NBU 922-34H1BS,  
 NBU 922-34A4CS & NBU 922-34A4BS  
 LOCATED IN SECTION 34, T9S, R22E,  
 S.L.B.&M., Uintah County, Utah

**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: 5 July 2012	<b>15</b>
REVISED: TL	DATE: 18 Sept 2012	



File: K:\ANADARKO\2012\12\_36\_NBU\_FOCUS\_922-34\GIS\Maps\_ABCDENBU\_922-34H\NBU\_922-34H\_C.mxd, 9/21/2012 9:32:43 AM

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 922-34H4CS	CIGE 89D	256ft
NBU 922-34H4BS	CIGE 89D	143ft
NBU 922-34G4CS	CIGE 89D	1,285ft
NBU 922-34G4BS	CIGE 89D	1,225ft
NBU 922-34H1CS	CIGE 89D	444ft
NBU 922-34H1BS	CIGE 212	276ft
NBU 922-34A4CS	CIGE 89D	385ft
NBU 922-34A4BS	NBU 216-35	619ft

**Legend**

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

**WELL PAD - NBU 922-34H**

**TOPO C**

NBU 922-34H4CS, NBU 922-34H4BS, NBU 922-34G4CS, NBU 922-34G4BS, NBU 922-34H1CS, NBU 922-34H1BS, NBU 922-34A4CS & NBU 922-34A4BS LOCATED IN SECTION 34, T9S, R22E, S.L.B.&M., Uintah County, Utah

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

1099 18th Street  
Denver, Colorado 80202



**CONSULTING, LLC**

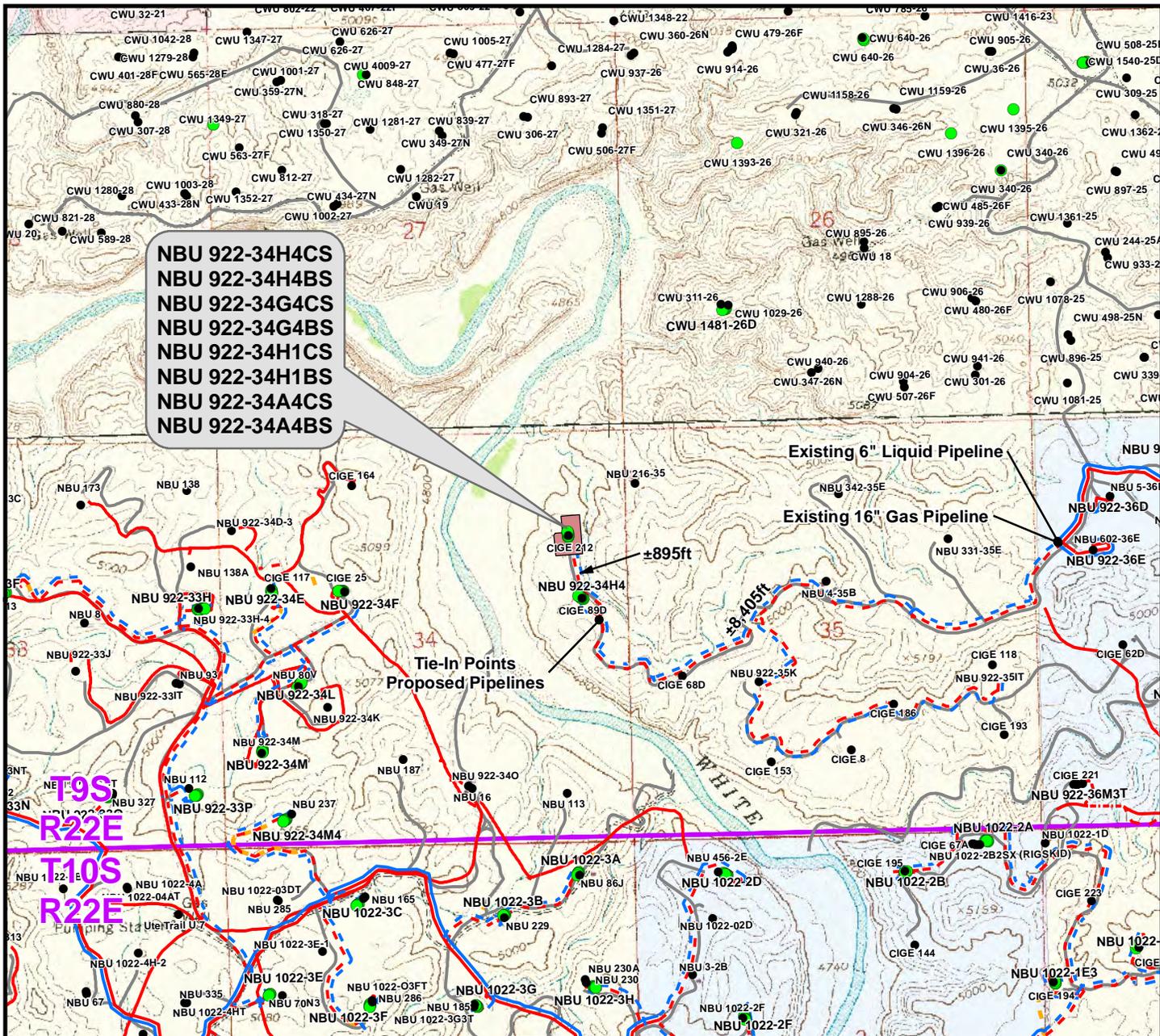
2155 North Main Street  
Sheridan, Wyoming 82801  
Phone 307-674-0609  
Fax 307-674-0182



SCALE: 1" = 2,000ft	NAD83 USP Central	<b>16</b>
DRAWN: TL	DATE: 18 Sept 2012	
REVISED:	DATE:	

SHEET NO:

16 OF 20



NBU 922-34H4CS  
 NBU 922-34H4BS  
 NBU 922-34G4CS  
 NBU 922-34G4BS  
 NBU 922-34H1CS  
 NBU 922-34H1BS  
 NBU 922-34A4CS  
 NBU 922-34A4BS

Proposed Liquid Pipeline	Length
Buried 6" (Max.) (Separator to Edge of Pad)	±200ft
Buried 6" (Max.) (Edge of Pad to 34H4 Intersection)	±895ft
<b>TOTAL PROPOSED BURIED LIQUID PIPELINE =</b>	<b>±1,095ft</b>

Proposed Gas Pipeline	Length
Buried 10" (Meter House to Edge of Pad)	±200ft
Buried 10" (Edge of Pad to 34H4 Intersection)	±895ft
<b>TOTAL PROPOSED BURIED GAS PIPELINE =</b>	<b>±1,095ft</b>

**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 922-34H**  
 TOPO D  
 NBU 922-34H4CS, NBU 922-34H4BS,  
 NBU 922-34G4CS, NBU 922-34G4BS,  
 NBU 922-34H1CS, NBU 922-34H1BS,  
 NBU 922-34A4CS & NBU 922-34A4BS  
 LOCATED IN SECTION 34, T9S, R22E,  
 S.L.B.&M., Uintah County, UTAH

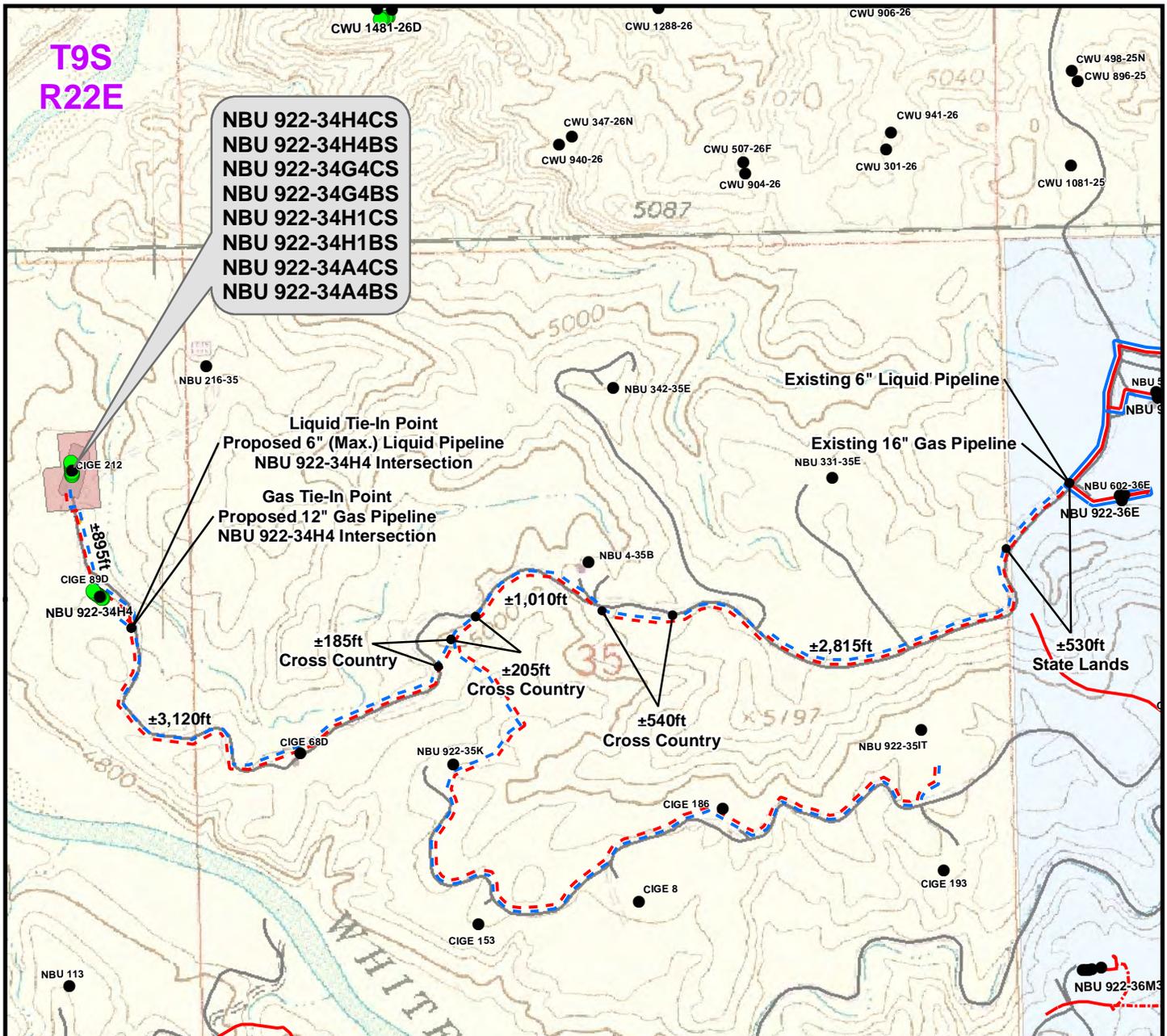
**Kerr-McGee Oil & Gas Onshore L.P.**  
 1099 18th Street  
 Denver, Colorado 80202



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

SCALE: 1" = 2,000ft	NAD83 USP Central	<b>17</b> 17 OF 20
DRAWN: TL	DATE: 18 Sept 2012	
REVISED:	DATE:	

File: K:\ANADARKO\2012\2012\_36\_NBU\_FOCUS\_922-34\GIS\Maps\_ABCDENBU\_922-34H.D.mxd, 9/22/2012 3:08:58 PM



**NBU 922-34H4CS  
 NBU 922-34H4BS  
 NBU 922-34G4CS  
 NBU 922-34G4BS  
 NBU 922-34H1CS  
 NBU 922-34H1BS  
 NBU 922-34A4CS  
 NBU 922-34A4BS**

Proposed Liquid Pipeline	Length
----- Buried 6" (Max.) (Separator to Edge of Pad)	±200ft
----- Buried 6" (Max.) (Edge of Pad to 34H4 Intersection)	±895ft
<b>TOTAL PROPOSED BURIED LIQUID PIPELINE =</b>	<b>±1,095ft</b>

Proposed Gas Pipeline	Length
----- Buried 10" (Meter House to Edge of Pad)	±200ft
----- Buried 10" (Edge of Pad to 34H4 Intersection)	±895ft
<b>TOTAL PROPOSED BURIED GAS PIPELINE =</b>	<b>±1,095ft</b>

**Legend**

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

**WELL PAD - NBU 922-34H**

TOPO D2 (PAD & PIPELINE DETAIL)  
 NBU 922-34H4CS, NBU 922-34H4BS,  
 NBU 922-34G4CS, NBU 922-34G4BS,  
 NBU 922-34H1CS, NBU 922-34H1BS,  
 NBU 922-34A4CS & NBU 922-34A4BS  
 LOCATED IN SECTION 34, T9S, R22E,  
 S.L.B.&M., Uintah County, Utah

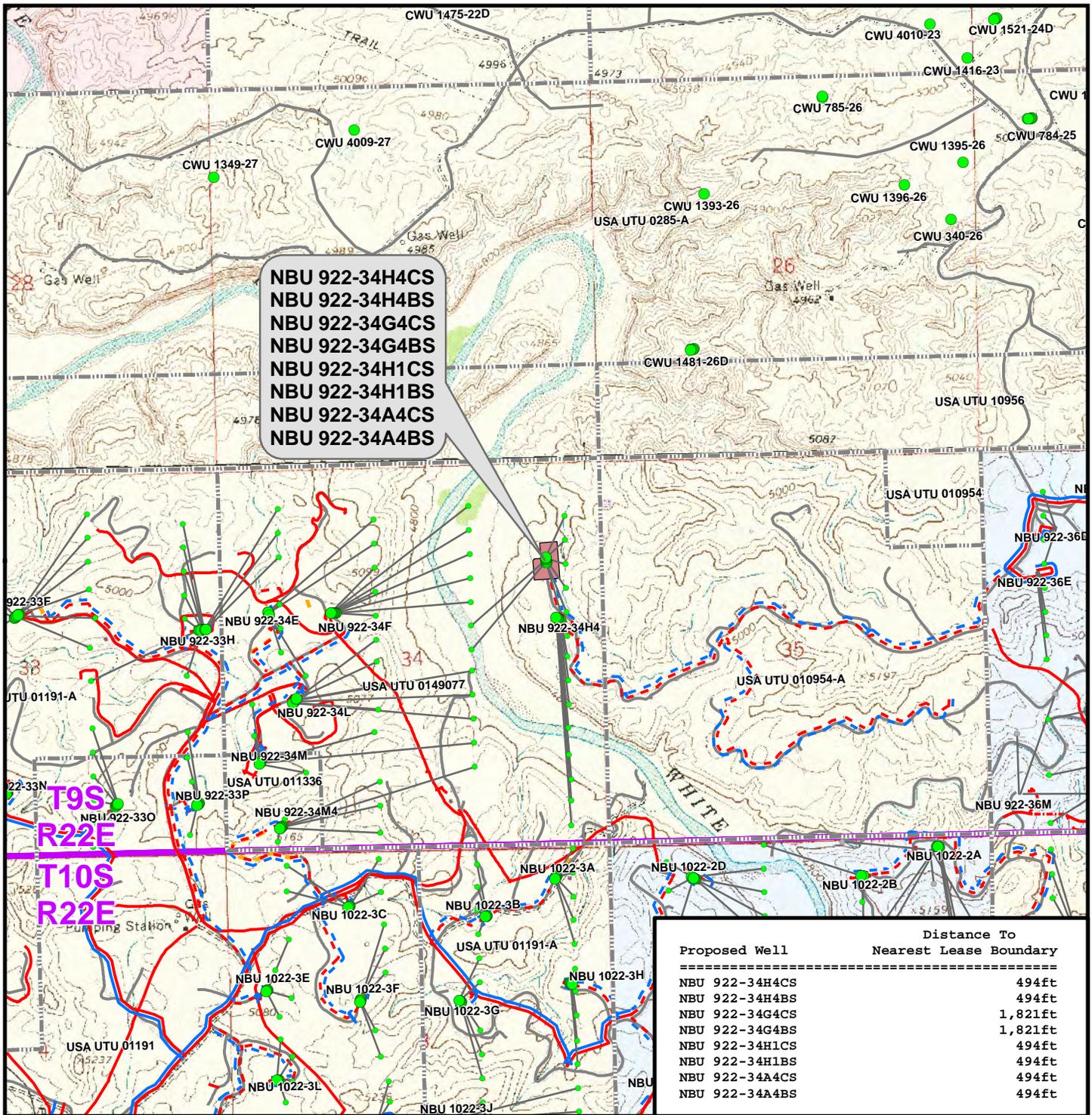
**Kerr-McGee Oil &  
 Gas Onshore L.P.**

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" = 1,000ft	NAD83 USP Central	<b>18</b> 18 OF 20
DRAWN: TL	DATE: 5 July 2012	
REVISED: TL	DATE: 18 Sept 2012	

File: K:\ANADARKO\2012\2012\_36\_NBU\_FOCUS\_922-34\GIS\Maps\_ABCDENBU\_922-34H\_D2.mxd, 9/21/2012 9:51:04 AM



**NBU 922-34H4CS  
 NBU 922-34H4BS  
 NBU 922-34G4CS  
 NBU 922-34G4BS  
 NBU 922-34H1CS  
 NBU 922-34H1BS  
 NBU 922-34A4CS  
 NBU 922-34A4BS**

Proposed Well	Distance To Nearest Lease Boundary
NBU 922-34H4CS	494ft
NBU 922-34H4BS	494ft
NBU 922-34G4CS	1,821ft
NBU 922-34G4BS	1,821ft
NBU 922-34H1CS	494ft
NBU 922-34H1BS	494ft
NBU 922-34A4CS	494ft
NBU 922-34A4BS	494ft

File: K:\ANADARKO\2012\12\36\_NBU\_FOCUS\_922-34\GIS\Maps\_ABCDENBU\_922-34H\_NBU\_922-34H\_E.mxd, 9/21/2012 4:30:50 PM

**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 922-34H**

TOPO E  
 NBU 922-34H4CS, NBU 922-34H4BS,  
 NBU 922-34G4CS, NBU 922-34G4BS,  
 NBU 922-34H1CS, NBU 922-34H1BS,  
 NBU 922-34A4CS & NBU 922-34A4BS  
 LOCATED IN SECTION 34, T9S, R22E,  
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 Denver, Colorado 80202

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

SCALE: 1" = 2,000ft

DRAWN: TL

REVISED:

NAD83 USP Central

DATE: 18 Sept 2012

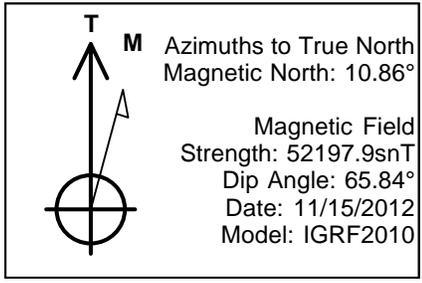
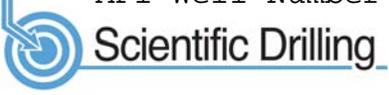
DATE:

SHEET NO:  
19  
 19 OF 20

**Kerr-McGee Oil & Gas Onshore, LP  
WELL PAD – NBU 922-34H  
WELLS – NBU 922-34H4CS, NBU 922-34H4BS,  
NBU 922-34G4CS, NBU 922-34G4BS,  
NBU 922-34H1CS, NBU 922-34H1BS,  
NBU 922-34A4CS & NBU 922-34A4BS  
Section 34, T9S, R22E, S.L.B.&M.**

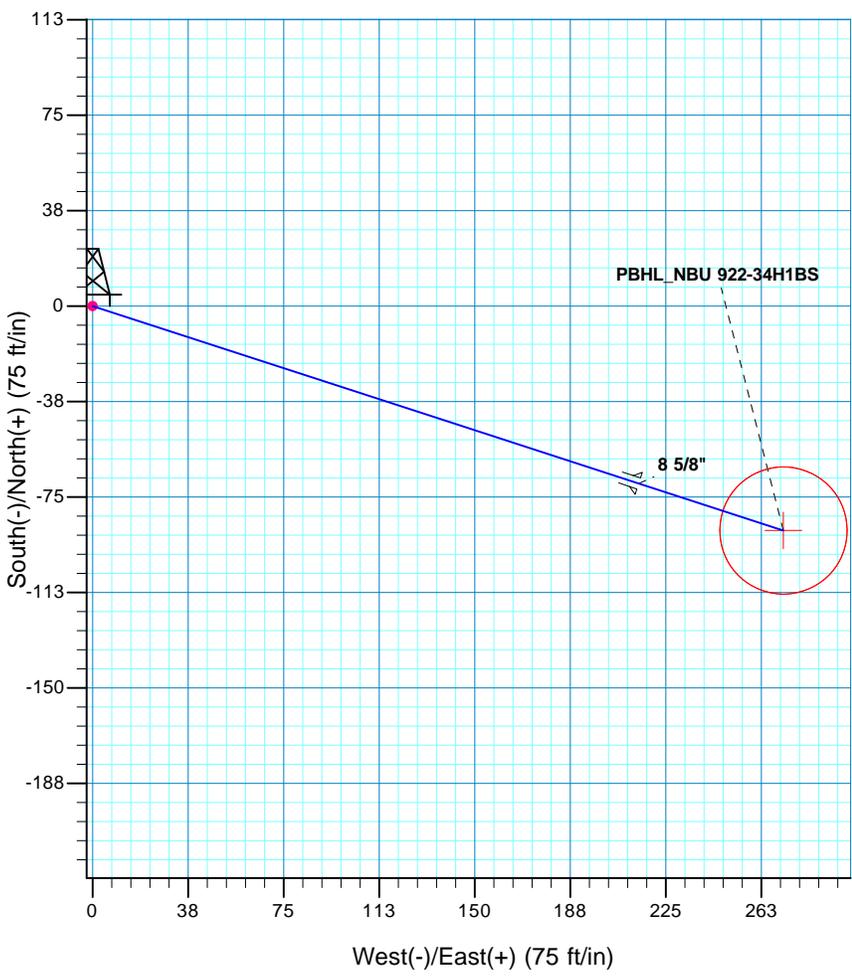
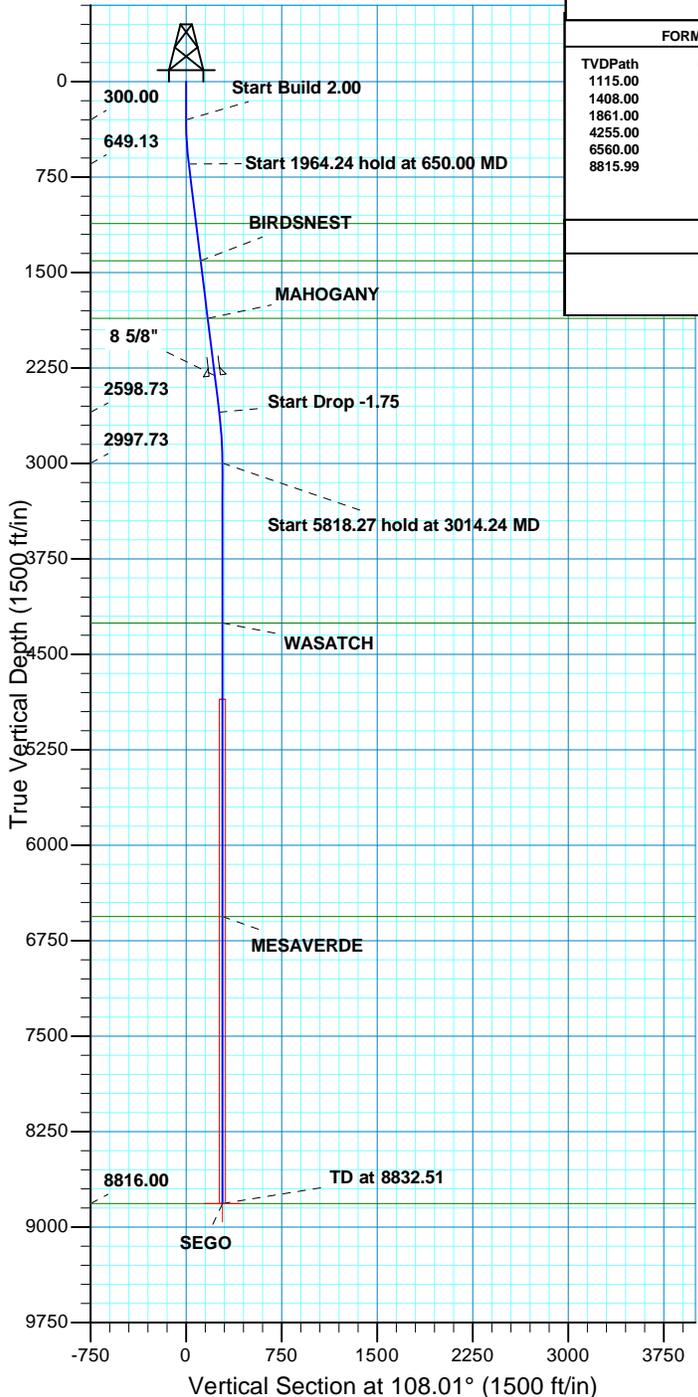
From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles 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 14.4 miles to the intersection of the Fidler Road (County B Road 3410) which road intersection is approximately 400 feet northeast of the Mountain Fuel Bridge at the White River. Exit left and proceed in a southeasterly direction along the Fidler Road approximately 4.4 miles to the intersection of the Seven Sisters Road (County B Road 3420) to the south. Exit right and proceed in a southerly, then southeasterly direction along the Seven Sisters Road approximately 1.2 miles to a Class D County Road to the southwest. Exit right and proceed in a southwesterly then southerly direction along the Class D County Road approximately 0.5 miles to a second Class D County Road to the west. Exit right and proceed in a westerly, then northwesterly direction along the second Class D County Road approximately 0.8 miles to a service road to the south. Exit left and proceed in a southerly, then westerly, then northwesterly direction along the service road approximately 2.6 miles to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 47.4 miles in a southerly direction.



WELL DETAILS: NBU 922-34H1BS								
GL 4854 & KB 4 @ 4858.00ft (ASSUMED)								
+N-S	+E-W	Northing	Easting	Latitude	Longitude			
0.00	0.00	14528570.21	2083293.64	39.996148	-109.418750			
DESIGN TARGET DETAILS								
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	8816.00	-88.14	271.17	14528486.89	2083566.33	39.995906	-109.417782	Circle (Radius: 25.00)
- plan hits target center								

SECTION DETAILS									
MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
650.00	7.00	108.01	649.13	-6.60	20.31	2.00	108.01	21.35	
2614.24	7.00	108.01	2598.73	-80.60	247.96	0.00	0.00	260.73	
3014.24	0.00	0.00	2997.73	-88.14	271.17	1.75	180.00	285.14	
8832.51	0.00	0.00	8816.00	-88.14	271.17	0.00	0.00	285.14	PBHL_NBU 922-34H1BS
FORMATION TOP DETAILS									
TVDPath	MDPath	Formation							
1115.00	1119.37	GREENRIVER							
1408.00	1414.57	BIRDSNEST							
1861.00	1870.97	MAHOGANY							
4255.00	4271.51	WASATCH							
6560.00	6576.51	MESAVERDE							
8815.99	8832.50	SEGO							
PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N									
Geodetic System: Universal Transverse Mercator (US Survey Feet)									
Datum: NAD 1927 (NADCON CONUS)									
Ellipsoid: Clarke 1866									
Zone: Zone 12N (114 W to 108 W)									
Location: SECTION 34 T9S R22E									
System Datum: Mean Sea Level									
CASING DETAILS									
TVD	MD	Name	Size						
2311.00	2324.35	8 5/8"	8.625						



RECEIVED



# Scientific Drilling

## **US ROCKIES REGION PLANNING**

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

**NBU 922-34H PAD**

**NBU 922-34H1BS**

**OH**

**Plan: PLAN #1 PRELIMINARY**

## **Standard Planning Report**

**15 November, 2012**





<b>Database:</b>	EDM5000-RobertS-Local	<b>Local Co-ordinate Reference:</b>	Well NBU 922-34H1BS
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	GL 4854 & KB 4 @ 4858.00ft (ASSUMED)
<b>Project:</b>	UTAH - UTM (feet), NAD27, Zone 12N	<b>MD Reference:</b>	GL 4854 & KB 4 @ 4858.00ft (ASSUMED)
<b>Site:</b>	NBU 922-34H PAD	<b>North Reference:</b>	True
<b>Well:</b>	NBU 922-34H1BS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1 PRELIMINARY		

<b>Project</b>	UTAH - UTM (feet), NAD27, Zone 12N		
<b>Map System:</b>	Universal Transverse Mercator (US Survey Feet)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	Zone 12N (114 W to 108 W)		

<b>Site</b>	NBU 922-34H PAD, SECTION 34 T9S R22E				
<b>Site Position:</b>	<b>Northing:</b>	14,528,589.86 usft	<b>Latitude:</b>	39.996202	
<b>From:</b> Lat/Long	<b>Easting:</b>	2,083,292.16 usft	<b>Longitude:</b>	-109.418754	
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	13.200 in	<b>Grid Convergence:</b>	1.02 °

<b>Well</b>	NBU 922-34H1BS, 1331 FNL 765 FEL					
<b>Well Position</b>	<b>+N/-S</b>	-19.67 ft	<b>Northing:</b>	14,528,570.21 usft	<b>Latitude:</b>	39.996148
	<b>+E/-W</b>	1.12 ft	<b>Easting:</b>	2,083,293.63 usft	<b>Longitude:</b>	-109.418750
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>		<b>Ground Level:</b>	4,854.00 ft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	11/15/12	10.86	65.84	52,198

<b>Design</b>	PLAN #1 PRELIMINARY			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	108.01

<b>Plan Sections</b>										
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	
650.00	7.00	108.01	649.13	-6.60	20.31	2.00	2.00	0.00	108.01	
2,614.24	7.00	108.01	2,598.73	-80.60	247.96	0.00	0.00	0.00	0.00	
3,014.24	0.00	0.00	2,997.73	-88.14	271.17	1.75	-1.75	0.00	180.00	
8,832.51	0.00	0.00	8,816.00	-88.14	271.17	0.00	0.00	0.00	0.00	PBHL_NBU 922-34H



<b>Database:</b>	EDM5000-RobertS-Local	<b>Local Co-ordinate Reference:</b>	Well NBU 922-34H1BS
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	GL 4854 & KB 4 @ 4858.00ft (ASSUMED)
<b>Project:</b>	UTAH - UTM (feet), NAD27, Zone 12N	<b>MD Reference:</b>	GL 4854 & KB 4 @ 4858.00ft (ASSUMED)
<b>Site:</b>	NBU 922-34H PAD	<b>North Reference:</b>	True
<b>Well:</b>	NBU 922-34H1BS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1 PRELIMINARY		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>Start Build 2.00</b>										
400.00	2.00	108.01	399.98	-0.54	1.66	1.75	2.00	2.00	0.00	
500.00	4.00	108.01	499.84	-2.16	6.64	6.98	2.00	2.00	0.00	
600.00	6.00	108.01	599.45	-4.85	14.93	15.69	2.00	2.00	0.00	
650.00	7.00	108.01	649.13	-6.60	20.31	21.35	2.00	2.00	0.00	
<b>Start 1964.24 hold at 650.00 MD</b>										
700.00	7.00	108.01	698.76	-8.48	26.10	27.45	0.00	0.00	0.00	
800.00	7.00	108.01	798.01	-12.25	37.69	39.63	0.00	0.00	0.00	
900.00	7.00	108.01	897.27	-16.02	49.28	51.82	0.00	0.00	0.00	
1,000.00	7.00	108.01	996.52	-19.79	60.87	64.01	0.00	0.00	0.00	
1,100.00	7.00	108.01	1,095.78	-23.55	72.46	76.19	0.00	0.00	0.00	
1,119.37	7.00	108.01	1,115.00	-24.28	74.71	78.56	0.00	0.00	0.00	
<b>GREENRIVER</b>										
1,200.00	7.00	108.01	1,195.03	-27.32	84.05	88.38	0.00	0.00	0.00	
1,300.00	7.00	108.01	1,294.28	-31.09	95.64	100.57	0.00	0.00	0.00	
1,400.00	7.00	108.01	1,393.54	-34.85	107.23	112.76	0.00	0.00	0.00	
1,414.57	7.00	108.01	1,408.00	-35.40	108.92	114.53	0.00	0.00	0.00	
<b>BIRDSNEST</b>										
1,500.00	7.00	108.01	1,492.79	-38.62	118.82	124.94	0.00	0.00	0.00	
1,600.00	7.00	108.01	1,592.05	-42.39	130.41	137.13	0.00	0.00	0.00	
1,700.00	7.00	108.01	1,691.30	-46.16	142.00	149.32	0.00	0.00	0.00	
1,800.00	7.00	108.01	1,790.56	-49.92	153.59	161.50	0.00	0.00	0.00	
1,870.97	7.00	108.01	1,861.00	-52.60	161.82	170.15	0.00	0.00	0.00	
<b>MAHOGANY</b>										
1,900.00	7.00	108.01	1,889.81	-53.69	165.18	173.69	0.00	0.00	0.00	
2,000.00	7.00	108.01	1,989.07	-57.46	176.77	185.88	0.00	0.00	0.00	
2,100.00	7.00	108.01	2,088.32	-61.22	188.36	198.06	0.00	0.00	0.00	
2,200.00	7.00	108.01	2,187.58	-64.99	199.95	210.25	0.00	0.00	0.00	
2,300.00	7.00	108.01	2,286.83	-68.76	211.54	222.44	0.00	0.00	0.00	
2,324.35	7.00	108.01	2,311.00	-69.68	214.37	225.41	0.00	0.00	0.00	
<b>8 5/8"</b>										
2,400.00	7.00	108.01	2,386.09	-72.53	223.13	234.63	0.00	0.00	0.00	
2,500.00	7.00	108.01	2,485.34	-76.29	234.72	246.81	0.00	0.00	0.00	
2,600.00	7.00	108.01	2,584.60	-80.06	246.31	259.00	0.00	0.00	0.00	
2,614.24	7.00	108.01	2,598.73	-80.60	247.96	260.73	0.00	0.00	0.00	
<b>Start Drop -1.75</b>										
2,700.00	5.50	108.01	2,683.98	-83.48	256.84	270.07	1.75	-1.75	0.00	
2,800.00	3.75	108.01	2,783.65	-85.97	264.51	278.13	1.75	-1.75	0.00	
2,900.00	2.00	108.01	2,883.52	-87.52	269.28	283.15	1.75	-1.75	0.00	
3,000.00	0.25	108.01	2,983.49	-88.13	271.14	285.11	1.75	-1.75	0.00	
3,014.24	0.00	0.00	2,997.73	-88.14	271.17	285.14	1.75	-1.75	0.00	
<b>Start 5818.27 hold at 3014.24 MD</b>										
3,100.00	0.00	0.00	3,083.49	-88.14	271.17	285.14	0.00	0.00	0.00	
3,200.00	0.00	0.00	3,183.49	-88.14	271.17	285.14	0.00	0.00	0.00	
3,300.00	0.00	0.00	3,283.49	-88.14	271.17	285.14	0.00	0.00	0.00	
3,400.00	0.00	0.00	3,383.49	-88.14	271.17	285.14	0.00	0.00	0.00	
3,500.00	0.00	0.00	3,483.49	-88.14	271.17	285.14	0.00	0.00	0.00	
3,600.00	0.00	0.00	3,583.49	-88.14	271.17	285.14	0.00	0.00	0.00	
3,700.00	0.00	0.00	3,683.49	-88.14	271.17	285.14	0.00	0.00	0.00	



<b>Database:</b>	EDM5000-RobertS-Local	<b>Local Co-ordinate Reference:</b>	Well NBU 922-34H1BS
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	GL 4854 & KB 4 @ 4858.00ft (ASSUMED)
<b>Project:</b>	UTAH - UTM (feet), NAD27, Zone 12N	<b>MD Reference:</b>	GL 4854 & KB 4 @ 4858.00ft (ASSUMED)
<b>Site:</b>	NBU 922-34H PAD	<b>North Reference:</b>	True
<b>Well:</b>	NBU 922-34H1BS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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)
3,800.00	0.00	0.00	3,783.49	-88.14	271.17	285.14	0.00	0.00	0.00
3,900.00	0.00	0.00	3,883.49	-88.14	271.17	285.14	0.00	0.00	0.00
4,000.00	0.00	0.00	3,983.49	-88.14	271.17	285.14	0.00	0.00	0.00
4,100.00	0.00	0.00	4,083.49	-88.14	271.17	285.14	0.00	0.00	0.00
4,200.00	0.00	0.00	4,183.49	-88.14	271.17	285.14	0.00	0.00	0.00
4,271.51	0.00	0.00	4,255.00	-88.14	271.17	285.14	0.00	0.00	0.00
<b>WASATCH</b>									
4,300.00	0.00	0.00	4,283.49	-88.14	271.17	285.14	0.00	0.00	0.00
4,400.00	0.00	0.00	4,383.49	-88.14	271.17	285.14	0.00	0.00	0.00
4,500.00	0.00	0.00	4,483.49	-88.14	271.17	285.14	0.00	0.00	0.00
4,600.00	0.00	0.00	4,583.49	-88.14	271.17	285.14	0.00	0.00	0.00
4,700.00	0.00	0.00	4,683.49	-88.14	271.17	285.14	0.00	0.00	0.00
4,800.00	0.00	0.00	4,783.49	-88.14	271.17	285.14	0.00	0.00	0.00
4,900.00	0.00	0.00	4,883.49	-88.14	271.17	285.14	0.00	0.00	0.00
5,000.00	0.00	0.00	4,983.49	-88.14	271.17	285.14	0.00	0.00	0.00
5,100.00	0.00	0.00	5,083.49	-88.14	271.17	285.14	0.00	0.00	0.00
5,200.00	0.00	0.00	5,183.49	-88.14	271.17	285.14	0.00	0.00	0.00
5,300.00	0.00	0.00	5,283.49	-88.14	271.17	285.14	0.00	0.00	0.00
5,400.00	0.00	0.00	5,383.49	-88.14	271.17	285.14	0.00	0.00	0.00
5,500.00	0.00	0.00	5,483.49	-88.14	271.17	285.14	0.00	0.00	0.00
5,600.00	0.00	0.00	5,583.49	-88.14	271.17	285.14	0.00	0.00	0.00
5,700.00	0.00	0.00	5,683.49	-88.14	271.17	285.14	0.00	0.00	0.00
5,800.00	0.00	0.00	5,783.49	-88.14	271.17	285.14	0.00	0.00	0.00
5,900.00	0.00	0.00	5,883.49	-88.14	271.17	285.14	0.00	0.00	0.00
6,000.00	0.00	0.00	5,983.49	-88.14	271.17	285.14	0.00	0.00	0.00
6,100.00	0.00	0.00	6,083.49	-88.14	271.17	285.14	0.00	0.00	0.00
6,200.00	0.00	0.00	6,183.49	-88.14	271.17	285.14	0.00	0.00	0.00
6,300.00	0.00	0.00	6,283.49	-88.14	271.17	285.14	0.00	0.00	0.00
6,400.00	0.00	0.00	6,383.49	-88.14	271.17	285.14	0.00	0.00	0.00
6,500.00	0.00	0.00	6,483.49	-88.14	271.17	285.14	0.00	0.00	0.00
6,576.51	0.00	0.00	6,560.00	-88.14	271.17	285.14	0.00	0.00	0.00
<b>MESAVERDE</b>									
6,600.00	0.00	0.00	6,583.49	-88.14	271.17	285.14	0.00	0.00	0.00
6,700.00	0.00	0.00	6,683.49	-88.14	271.17	285.14	0.00	0.00	0.00
6,800.00	0.00	0.00	6,783.49	-88.14	271.17	285.14	0.00	0.00	0.00
6,900.00	0.00	0.00	6,883.49	-88.14	271.17	285.14	0.00	0.00	0.00
7,000.00	0.00	0.00	6,983.49	-88.14	271.17	285.14	0.00	0.00	0.00
7,100.00	0.00	0.00	7,083.49	-88.14	271.17	285.14	0.00	0.00	0.00
7,200.00	0.00	0.00	7,183.49	-88.14	271.17	285.14	0.00	0.00	0.00
7,300.00	0.00	0.00	7,283.49	-88.14	271.17	285.14	0.00	0.00	0.00
7,400.00	0.00	0.00	7,383.49	-88.14	271.17	285.14	0.00	0.00	0.00
7,500.00	0.00	0.00	7,483.49	-88.14	271.17	285.14	0.00	0.00	0.00
7,600.00	0.00	0.00	7,583.49	-88.14	271.17	285.14	0.00	0.00	0.00
7,700.00	0.00	0.00	7,683.49	-88.14	271.17	285.14	0.00	0.00	0.00
7,800.00	0.00	0.00	7,783.49	-88.14	271.17	285.14	0.00	0.00	0.00
7,900.00	0.00	0.00	7,883.49	-88.14	271.17	285.14	0.00	0.00	0.00
8,000.00	0.00	0.00	7,983.49	-88.14	271.17	285.14	0.00	0.00	0.00
8,100.00	0.00	0.00	8,083.49	-88.14	271.17	285.14	0.00	0.00	0.00
8,200.00	0.00	0.00	8,183.49	-88.14	271.17	285.14	0.00	0.00	0.00
8,300.00	0.00	0.00	8,283.49	-88.14	271.17	285.14	0.00	0.00	0.00
8,400.00	0.00	0.00	8,383.49	-88.14	271.17	285.14	0.00	0.00	0.00
8,500.00	0.00	0.00	8,483.49	-88.14	271.17	285.14	0.00	0.00	0.00
8,600.00	0.00	0.00	8,583.49	-88.14	271.17	285.14	0.00	0.00	0.00
8,700.00	0.00	0.00	8,683.49	-88.14	271.17	285.14	0.00	0.00	0.00



<b>Database:</b>	EDM5000-RobertS-Local	<b>Local Co-ordinate Reference:</b>	Well NBU 922-34H1BS
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	GL 4854 & KB 4 @ 4858.00ft (ASSUMED)
<b>Project:</b>	UTAH - UTM (feet), NAD27, Zone 12N	<b>MD Reference:</b>	GL 4854 & KB 4 @ 4858.00ft (ASSUMED)
<b>Site:</b>	NBU 922-34H PAD	<b>North Reference:</b>	True
<b>Well:</b>	NBU 922-34H1BS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,800.00	0.00	0.00	8,783.49	-88.14	271.17	285.14	0.00	0.00	0.00
8,832.50	0.00	0.00	8,815.99	-88.14	271.17	285.14	0.00	0.00	0.00
<b>SEGO</b>									
8,832.51	0.00	0.00	8,816.00	-88.14	271.17	285.14	0.00	0.00	0.00
<b>TD at 8832.51 - PBHL_NBU 922-34H1BS</b>									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_NBU 922-34H1B: - hit/miss target - Shape	0.00	0.00	8,816.00	-88.14	271.17	14,528,486.90	2,083,566.33	39.995906	-109.417782
- plan hits target center - Circle (radius 25.00)									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,324.35	2,311.00	8 5/8"	8.625	11.000	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,119.37	1,115.00	GREENRIVER			
1,414.57	1,408.00	BIRDSNEST			
1,870.97	1,861.00	MAHOGANY			
4,271.51	4,255.00	WASATCH			
6,576.51	6,560.00	MESAVERDE			
8,832.50	8,815.99	SEGO		0.00	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment	
300.00	300.00	0.00	0.00	Start Build 2.00	
650.00	649.13	-6.60	20.31	Start 1964.24 hold at 650.00 MD	
2,614.24	2,598.73	-80.60	247.96	Start Drop -1.75	
3,014.24	2,997.73	-88.14	271.17	Start 5818.27 hold at 3014.24 MD	
8,832.51	8,816.00	-88.14	271.17	TD at 8832.51	

NBU 922-34A4BS / NBU 922-34A4CS / NBU 922-34G4BS  
 NBU 922-34G4CS / NBU 922-34H1BS / NBU 922-34H1CS /  
 NBU 922-34H4BS / NBU 922-34H4CS

Surface Use Plan of Operations  
 1 of 7

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

### NBU 922-34H PAD

<u>API #</u>	<u>NBU 922-34A4BS</u>	
	Surface: 1311 FNL / 766 FEL	NENE
	BHL: 751 FNL / 494 FEL	NENE
<u>API #</u>	<u>NBU 922-34A4CS</u>	
	Surface: 1321 FNL / 766 FEL	NENE
	BHL: 1084 FNL / 494 FEL	NENE
<u>API #</u>	<u>NBU 922-34G4BS</u>	
	Surface: 1350 FNL / 764 FEL	SENE
	BHL: 2245 FNL / 1821 FEL	SWNE
<u>API #</u>	<u>NBU 922-34G4CS</u>	
	Surface: 1370 FNL / 763 FEL	SENE
	BHL: 2578 FNL / 1821 FEL	SWNE
<u>API #</u>	<u>NBU 922-34H1BS</u>	
	Surface: 1331 FNL / 765 FEL	SENE
	BHL: 1418 FNL / 494 FEL	SENE
<u>API #</u>	<u>NBU 922-34H1CS</u>	
	Surface: 1341 FNL / 765 FEL	SENE
	BHL: 1752 FNL / 494 FEL	SENE
<u>API #</u>	<u>NBU 922-34H4BS</u>	
	Surface: 1380 FNL / 762 FEL	SENE
	BHL: 2085 FNL / 494 FEL	SENE
<u>API #</u>	<u>NBU 922-34H4CS</u>	
	Surface: 1390 FNL / 762 FEL	SENE
	BHL: 2419 FNL / 494 FEL	SENE

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.

NBU 922-34A4BS / NBU 922-34A4CS / NBU 922-34G4BS  
NBU 922-34G4CS / NBU 922-34H1BS / NBU 922-34H1CS /  
NBU 922-34H4BS / NBU 922-34H4CS

Surface Use Plan of Operations  
2 of 7

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.

**The following segments are "on-lease"**

±110' (0.02 miles) – Section 34 T9S R22E (SE/4 NE/4) – On-lease UTU-0149077, from the edge of pad to the T-intersection in SE/4 NE/4. 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 CIGE 212, which is a producing gas well according to Utah Division of Oil, Gas and Mining (UDOGM) records on of pad November 21, 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 ±9,500' and the individual segments are broken up as follows:

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

±200' (0.04 miles) – Section 34 T9S R22E (SE/4 NE/4) – On-lease UTU-0149077, BLM surface, New 10" buried gas gathering pipeline from the meter to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.

NBU 922-34A4BS / NBU 922-34A4CS / NBU 922-34G4BS  
 NBU 922-34G4CS / NBU 922-34H1BS / NBU 922-34H1CS /  
 NBU 922-34H4BS / NBU 922-34H4CS

Surface Use Plan of Operations  
 3 of 7

- ±895' (0.2 miles) – Section 34 T9S R22E (SE/4 NE/4) – On-lease UTU-0149077, BLM surface, New 10" buried gas gathering pipeline from the edge of the pad to tie-in to the proposed buried 12" gas gathering pipeline at the NBU 922-34H4 Pad intersection . Please refer to Exhibit A, Line 9.
- ±3,305' (0.6 miles) – Section 34 T9S R22E (SE/4 NE/4) – On-lease UTU-0149077 and UTU-010954-A, BLM surface, New 12" buried gas gathering pipeline from the NBU 922-34H4 Pad pipeline intersection to tie-in to the proposed buried 16" gas gathering pipeline at the NBU 922-35N Pad intersection located at SE/4 NW/4, Section 35 of T9S-R22E. There will be 185' of cross country gas gathering pipeline. This pipeline will be used concurrently with the NBU 922-34H4 Pad. Please refer to Exhibit A, Lines 7 and 6.

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

- ±4,570' (0.9 miles) – Section 35 T9S R22E – On-lease UTU 010954-A, BLM surface, New 16" buried gas gathering pipeline from the NBU 922-35N Pad intersection to the eastern lease boundary. There are two segments of pipeline that are cross county, 205' (Exhibit A, Line 5) and 540' (Exhibit A, Line 3). Please refer to Exhibit A, Lines 5, 4, 3 and 2.
- ±530' (0.1 miles) – Section 36 T9S R22E – On-lease ST UT ML-22650, SITLA surface, New 16" buried gas gathering pipeline from the western lease boundary to the tie-in to the existing buried 16" gas gathering pipeline at the NBU 922-36E Pad. Please refer to Exhibit A, 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 ±9,500' and the individual segments are broken up as follows:

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

- ±200' (0.04 miles) – Section 34 T9S R22E (SE/4 NE/4) – On-lease UTU-0149077, 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.
- ±895' (0.2 miles) – Section 34 T9S R22E (SE/4 NE/4) – On-lease UTU-0149077, BLM surface, New 6" buried liquid gathering pipeline from the edge of the pad to tie-in to the proposed buried 6" liquid gathering pipeline at the NBU 922-34H4 Pad intersection . Please refer to Exhibit B, Line 9.
- ±3,305' (0.6 miles) – Section 34 T9S R22E (SE/4 NE/4) – On-lease UTU-0149077 and UTU-010954-A, BLM surface, New 6" buried liquid gathering pipeline from the NBU 922-34H4 Pad pipeline intersection to tie-in to the proposed buried 6" liquid gathering pipeline at the NBU 922-35N Pad intersection located at SE/4 NW/4, Section 35 of T9S-R22E. There will be 185' of cross country liquid gathering pipeline. This pipeline will be used concurrently with the NBU 922-34H4 Pad. Please refer to Exhibit B, Lines 7 and 6.

NBU 922-34A4BS / NBU 922-34A4CS / NBU 922-34G4BS  
 NBU 922-34G4CS / NBU 922-34H1BS / NBU 922-34H1CS /  
 NBU 922-34H4BS / NBU 922-34H4CS

Surface Use Plan of Operations  
 4 of 7

±4,570' (0.9 miles) – Section 35 T9S R22E – On-lease UTU 010954-A, BLM surface, New 6" buried liquid gathering pipeline from the NBU 922-35N Pad intersection to the eastern lease boundary. There are two segments of pipeline that are cross county, 205' (Exhibit B, Line 5) and 540' (Exhibit B, Line 3). This pipeline will be used concurrently with the NBU 922-34H4, NBU 922-35N, NBU 922-35O, NBU 922-35I, NBU 922-35F, NBU 922-35G and NBU 922-35H. Please refer to Exhibit B, Lines 5, 4, 3 and 2.

**Anadarko Uintah Midstream (AUM) will apply for the appropriate State easements under separate cover. Listed below is the liquid gathering pipeline distances:**

±530' (0.1 miles) – Section 36 T9S R22E – On-lease ST UT ML-22650, SITLA surface, New 6" buried liquid gathering pipeline from the western lease boundary to the tie-in to the existing buried 6" liquid gathering pipeline at the NBU 922-36E Pad. Please refer to Exhibit B, 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.

Water will be hauled to location over the roads marked on Maps A and B.

#### **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.

NBU 922-34A4BS / NBU 922-34A4CS / NBU 922-34G4BS  
NBU 922-34G4CS / NBU 922-34H1BS / NBU 922-34H1CS /  
NBU 922-34H4BS / NBU 922-34H4CS

Surface Use Plan of Operations  
5 of 7

**I. Well Site Layout:**

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

**J. Plans for Surface Reclamation:**

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

**Interim Reclamation**

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

**Final Reclamation**

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

**Measures Common to Interim and Final Reclamation**

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

**Weed Control**

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

**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.

NBU 922-34A4BS / NBU 922-34A4CS / NBU 922-34G4BS  
NBU 922-34G4CS / NBU 922-34H1BS / NBU 922-34H1CS /  
NBU 922-34H4BS / NBU 922-34H4CS

Surface Use Plan of Operations  
6 of 7

**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 September 20, 2012 by SWCA Environmental Consultants. For additional details please refer to report SWCA-UT12-14314-178.

Biological field survey was completed on August 25, 2012 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-845.

**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 922-34A4BS / NBU 922-34A4CS / NBU 922-34G4BS  
NBU 922-34G4CS / NBU 922-34H1BS / NBU 922-34H1CS /  
NBU 922-34H4BS / NBU 922-34H4CS

Surface Use Plan of Operations  
7 of 7

**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

January 23, 2013

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)

May 20, 2013

Memorandum

To: Assistant Field Office Manager Minerals,  
Vernal Field Office

From: Michael Coulthard, Petroleum Engineer

Subject: 2013 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 2013 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
<b>WELL PAD - NBU 922-34H</b>		
43-047-53736	NBU 922-34A4BS	Sec 34 T09S R22E 1311 FNL 0766 FEL
	BHL	Sec 34 T09S R22E 0751 FNL 0494 FEL
43-047-53737	NBU 922-34A4CS	Sec 34 T09S R22E 1321 FNL 0766 FEL
	BHL	Sec 34 T09S R22E 1084 FNL 0494 FEL
43-047-53738	NBU 922-34G4BS	Sec 34 T09S R22E 1350 FNL 0764 FEL
	BHL	Sec 34 T09S R22E 2245 FNL 1821 FEL
43-047-53739	NBU 922-34G4CS	Sec 34 T09S R22E 1370 FNL 0763 FEL
	BHL	Sec 34 T09S R22E 2578 FNL 1821 FEL
43-047-53740	NBU 922-34H1BS	Sec 34 T09S R22E 1331 FNL 0765 FEL
	BHL	Sec 34 T09S R22E 1418 FNL 0494 FEL
43-047-53741	NBU 922-34H1CS	Sec 34 T09S R22E 1341 FNL 0765 FEL
	BHL	Sec 34 T09S R22E 1752 FNL 0494 FEL
43-047-53742	NBU 922-34H4BS	Sec 34 T09S R22E 1380 FNL 0762 FEL
	BHL	Sec 34 T09S R22E 2085 FNL 0494 FEL
43-047-53743	NBU 922-34H4CS	Sec 34 T09S R22E 1390 FNL 0762 FEL
	BHL	Sec 34 T09S R22E 2419 FNL 0494 FEL
<b>WELL PAD - NBU 922-34H4</b>		
43-047-53744	NBU 922-34I1BS	Sec 34 T09S R22E 2197 FNL 0581 FEL
	BHL	Sec 34 T09S R22E 2584 FSL 0494 FEL
43-047-53745	NBU 922-34I1CS	Sec 34 T09S R22E 2191 FNL 0589 FEL
	BHL	Sec 34 T09S R22E 2251 FSL 0495 FEL
43-047-53746	NBU 922-34I4BS	Sec 34 T09S R22E 2178 FNL 0604 FEL
	BHL	Sec 34 T09S R22E 1918 FSL 0495 FEL

RECEIVED: May 22, 2013

API #	WELL NAME	LOCATION
43-047-53747	NBU 922-34I4CS	Sec 34 T09S R22E 2172 FNL 0612 FEL BHL Sec 34 T09S R22E 1600 FSL 0507 FEL
43-047-53748	NBU 922-34P1BS	Sec 34 T09S R22E 2160 FNL 0628 FEL BHL Sec 34 T09S R22E 1225 FSL 0509 FEL
43-047-53749	NBU 922-34P1CS	Sec 34 T09S R22E 2166 FNL 0620 FEL BHL Sec 34 T09S R22E 0881 FSL 0484 FEL
43-047-53750	NBU 922-34P4BS	Sec 34 T09S R22E 2154 FNL 0636 FEL BHL Sec 34 T09S R22E 0583 FSL 0495 FEL
43-047-53751	NBU 922-34P4CS	Sec 34 T09S R22E 2148 FNL 0644 FEL BHL Sec 34 T09S R22E 0246 FSL 0505 FEL

This office has no objection to permitting the wells at this time.

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: 2013.05.20 12:38:28 -0600

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

MCoulthard:mc:5-20-13

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 5/8/2013

API NO. ASSIGNED: 43047537400000

WELL NAME: NBU 922-34H1BS

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

PHONE NUMBER: 720 929-6086

CONTACT: Gina Becker

PROPOSED LOCATION: SENE 34 090S 220E

Permit Tech Review: 

SURFACE: 1331 FNL 0765 FEL

Engineering Review: 

BOTTOM: 1418 FNL 0494 FEL

Geology Review: 

COUNTY: UINTAH

LATITUDE: 39.99607

LONGITUDE: -109.41940

UTM SURF EASTINGS: 634930.00

NORTHINGS: 4428517.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-0149077

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 922-34H1BS  
**API Well Number:** 43047537400000  
**Lease Number:** UTU-0149077  
**Surface Owner:** FEDERAL  
**Approval Date:** 5/22/2013

### 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

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>	
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.	
<b>1. TYPE OF WELL</b> Gas Well	<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-0149077
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>PHONE NUMBER:</b> 720 929-6100	<b>8. WELL NAME and NUMBER:</b> NBU 922-34H1BS
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1331 FNL 0765 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENE Section: 34 Township: 09.0S Range: 22.0E Meridian: S	<b>9. API NUMBER:</b> 43047537400000
	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
	<b>COUNTY:</b> UINTAH
	<b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 5/22/2014	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> 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"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> 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:** March 10, 2014

**By:** 

<b>NAME (PLEASE PRINT)</b> Teena Paulo	<b>PHONE NUMBER</b> 720 929-6236	<b>TITLE</b> Staff Regulatory Specialist
<b>SIGNATURE</b> N/A	<b>DATE</b> 3/6/2014	



**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 43047537400000**

API: 43047537400000

Well Name: NBU 922-34H1BS

Location: 1331 FNL 0765 FEL QTR SENE SEC 34 TWNP 090S RNG 220E MER S

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

Date Original Permit Issued: 5/22/2013

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: 3/6/2014

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**RECEIVED**

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

FEB 28 2013

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

5. Lease Serial No.  
UTU0149077

6. If Indian, Allottee or Tribe Name

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

8. Lease Name and Well No.  
NBU 922-34H1BS

1a. Type of Work:  DRILL  REENTER

1b. Type of Well:  Oil Well  Gas Well  Other  Single Zone  Multiple Zone

2. Name of Operator  
KERR-MCGEE OIL & GAS ONSHORE

Contact: GINA T BECKER  
Ph: 720-929-6086  
Email: GINA.BECKER@ANADARKO.COM

9. API Well No.  
4304753740

3a. Address  
P.O. BOX 173779  
DENVER, CO 80202-3779

3b. Phone No. (include area code)  
Ph: 720-929-6086  
Fx: 720-929-7086

10. Field and Pool, or Exploratory  
NATURAL BUTTES

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)

At surface SENE 1331FNL 765FEL 39.996113 N Lat, 109.419432 W Lon

At proposed prod. zone SENE 1418FNL 494FEL 39.995871 N Lat, 109.418465 W Lon

11. Sec., T., R., M., or Blk. and Survey or Area  
Sec 34 T9S R22E Mer SLB

14. Distance in miles and direction from nearest town or post office\*  
APPROXIMATELY 47 MILES SOUTHEAST OF VERNAL, UTAH

12. County or Parish  
UINTAH

13. State  
UT

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)  
494

16. No. of Acres in Lease  
600.00

17. Spacing Unit dedicated to this well

18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.  
276

19. Proposed Depth  
8833 MD  
8816 TVD

20. BLM/BIA Bond No. on file  
WYB000291

21. Elevations (Show whether DF, KB, RT, GL, etc.)  
4854 GL

22. Approximate date work will start  
09/01/2013

23. Estimated duration of work  
60-90 DAYS

24. Attachments

MAY 12 2014

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

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

DIV. OF OIL, GAS & MINING

25. Signature (Electronic Submission) Name (Printed/Typed) GINA T BECKER Ph: 720-929-6086 Date 02/27/2013

Title  
SENIOR REGULATORY ANALYST

Approved by (Signature) Name (Printed/Typed) Jerry Kenczka Date MAY 06 2014

Title Assistant Field Manager Office VERNAL FIELD OFFICE  
Lands & Mineral Resources

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 #200139 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 03/04/2013 ()

**NOTICE OF APPROVAL**

**UDOGM**

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



**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**

<b>Company:</b>	KERR MCGEE OIL&GAS ONSHORE LP	<b>Location:</b>	SENE, Sec. 34, T9S, R22E
<b>Well No:</b>	NBU 922-34H1BS	<b>Lease No:</b>	UTU-0149077
<b>API No:</b>	43-047-53740	<b>Agreement:</b>	

**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: <a href="mailto:blm_ut_vn_opreport@blm.gov">blm ut vn opreport@blm.gov</a>
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

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

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO<sub>x</sub> 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<sub>x</sub> 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.
- 
- Silt fencing will be used to protect cacti that are within 300 feet and downslope or downwind of surface disturbance. Fencing is intended to prevent sedimentation or dust deposition and will be evaluated for effectiveness by a qualified botanist.
  - A qualified botanist will be on site to monitor surface-disturbing activities when cacti are within 300 feet of any surface disturbance.
  - Dust abatement (consisting of water only) will occur during construction where plants are closer than 300 feet from surface-disturbing activities.
  - Cacti within 300 feet of proposed surface disturbance will be flagged immediately prior to surface-disturbing activities and flags will be removed immediately after surface-disturbing activities are completed. Leaving cacti flagged for as short a time as possible will minimize drawing attention to the cacti location and reduce potential for theft.
  - Project personnel associated with construction activities will be instructed to drive at a speed limit of 15 miles per hour on unpaved roads and remain in existing roadway ROWs at all times.
  - The following considerations are required for those wells where KMG deems completion fluid recycling is appropriate based on new well density and topography:
    - Temporary lines associated with recycling of completion water will be sited in existing ROWs. The pressure in the lines is less than 50 pounds per square inch and the lines are constructed of rigid aluminum; therefore, virtually no movement will occur during operation.
    - If cacti are present within the 50-foot-wide survey corridor and avoidance is necessary (to ensure the line is more than 50 feet away from identified cactus), the new alignment will, if possible, be such that the cacti are topographically higher than the re-aligned line so a potential spill from the line will not impact the identified cacti.
    - If it is not possible to re-align the surface lines to avoid individuals or populations of the *Sclerocactus wetlandicus* that are within 50 feet of surface disturbance, the following actions will be taken to minimize impacts:

- Prior to construction, KMG will flag individual cacti. Once pipe installation is complete, remove the flagging.
- Prior to construction, KMG will install protective fencing around the cacti if they are down gradient of the surface pipe. Once pipe installation is complete, remove the protective fencing.
- A qualified botanist will be present during construction to monitor surface line installation, when surface pipeline is within 50 feet.
- Paleontological monitoring by a BLM permitted paleontologist is required during all ground-disturbing activities (BLM 2012b).
- Bird exclusion netting will be installed over reserve pits containing water that are left open for more than 30 days to reduce possibility of exposure to hazardous chemicals (BLM 2012b).
- KMG will install bird-excluding devices that prevent the perching and entry of migratory birds on or into its new fired vessel exhaust stacks (BLM 2012b).

#### NBU 922-34H4

- Bird exclusion netting will be installed over reserve pits containing water that are left open for more than 30 days to reduce possibility of exposure to hazardous chemicals (BLM 2012b).
- KMG will install bird-excluding devices that prevent the perching and entry of migratory birds on or into its new fired vessel exhaust stacks (BLM 2012b).

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

**SITE SPECIFIC DOWNHOLE COAs:**

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

**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](http://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.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-0149077	
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.	
<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>	
<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES	
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> NBU 922-34H1BS
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047537400000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6100
<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES	
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1331 FNL 0765 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENE Section: 34 Township: 09.0S Range: 22.0E Meridian: S	
<b>COUNTY:</b> UINTAH	
<b>STATE:</b> UTAH	

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 3/26/2015	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> 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"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> 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**  
**March 30, 2015**  
**Oil, Gas and Mining**

**Date:** \_\_\_\_\_  
**By:** 

<b>NAME (PLEASE PRINT)</b> Joel Malefy	<b>PHONE NUMBER</b> 720 929-6828	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 3/26/2015	



**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 43047537400000**

API: 43047537400000

Well Name: NBU 922-34H1BS

Location: 1331 FNL 0765 FEL QTR SENE SEC 34 TWNP 090S RNG 220E MER S

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

Date Original Permit Issued: 5/22/2013

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: Joel Malefyt

Date: 3/26/2015

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

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<b>COUNTY:</b> UINTAH	
<b>STATE:</b> UTAH	

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 7/9/2015	<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
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	<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.

Spud well 07/09/2015 @ 16:00. Drill 24" conductor hole to 40', run 14" X .250 wall conductor pipe, cement with 81 sacks ready mix. Anticipated surface spud date and surface casing cement 07/31/2015.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 July 14, 2015

<b>NAME (PLEASE PRINT)</b> Doreen Green	<b>PHONE NUMBER</b> 435 781-9758	<b>TITLE</b> Regulatory Analyst II
<b>SIGNATURE</b> N/A	<b>DATE</b> 7/13/2015	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-0149077
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> NBU 922-34H1BS
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047537400000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6104
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1316 FNL 0766 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENE Section: 34 Township: 09.0S Range: 22.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>8/28/2015</b>  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b> <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

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

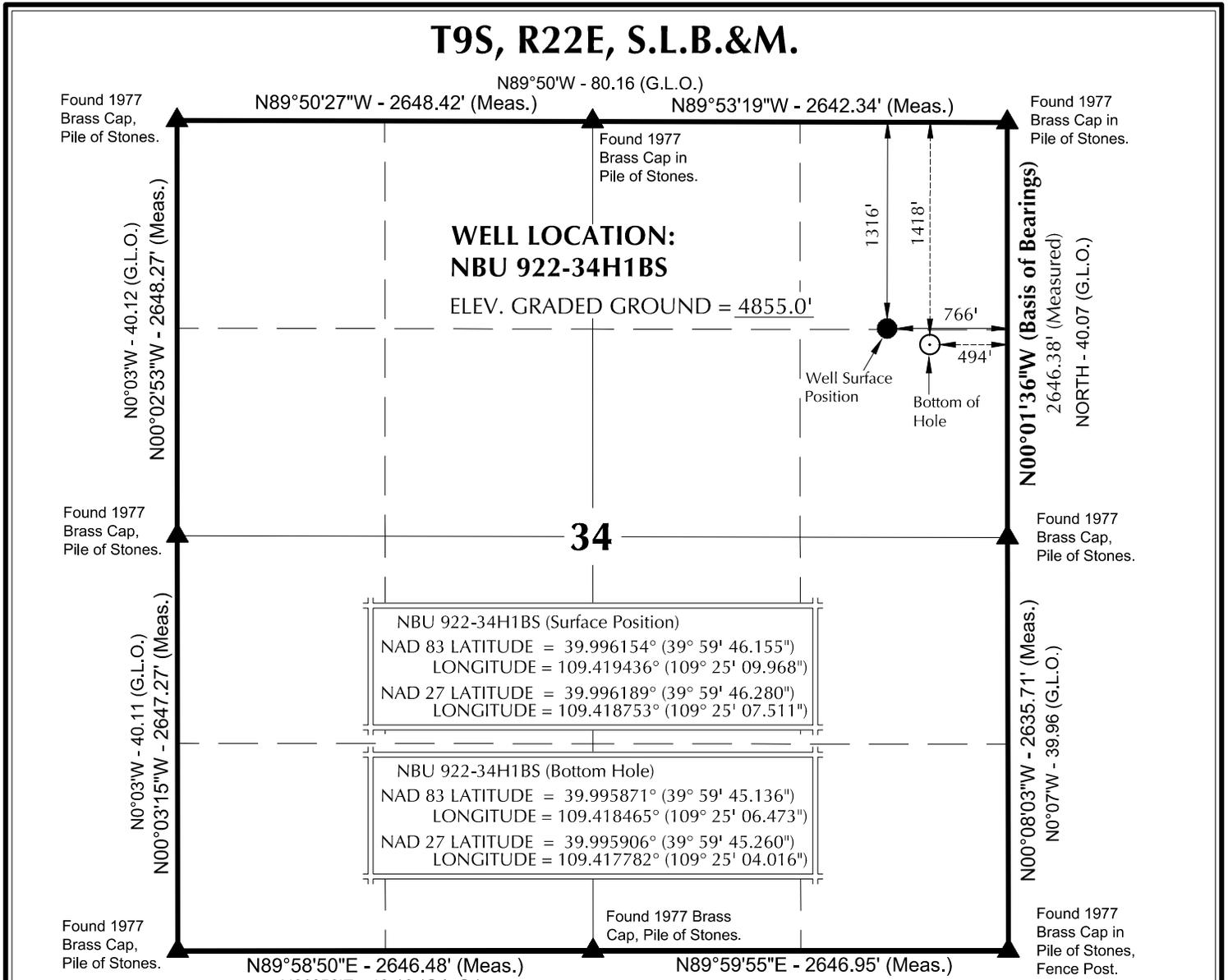
Kerr-McGee Oil & Gas Onshore, LP respectfully requests move the surface hole location for the subject well. In addition, Kerr-McGee also requests to change the depth in which conductor is set from 40' to between 80'-150' and to change the conductor size from 14" to 16". Please see the updated plat, drill program, SUPO and directional plan for specific details. Thank you.

**Approved by the**  
**August 31, 2015**  
**Oil, Gas and Mining**

**Date:** \_\_\_\_\_  
**By:**

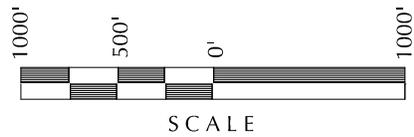
<b>NAME (PLEASE PRINT)</b> Kristina Geno	<b>PHONE NUMBER</b> 720 929-6824	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 8/27/2015	

# 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 S69°15'54"E 290.95' from the Surface Position.
- 4. NAD 83 Latitude & Longitude are (CORS 96)(EPOCH:2002).
- 5. Bearings and Distances are based upon a Local Cartesian Grid, oriented to Geodetic North at the North 1/4 Corner of Section 8, T10S, R22E, S.L.B.&M. The Grid having a mean project height of 5300'. Lineal units used are U.S. Survey Foot.
- 6. Basis of elevation is Tri-Sta "Two Water" located in Lot 4 of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.



**SURVEYOR'S CERTIFICATE**

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

*John R. Laugh*  
 No. 602869  
 JOHN R. LAUGH  
 PROFESSIONAL LAND SURVEYOR  
 REGISTRATION No. 602869  
 STATE OF UTAH

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

**WELL PAD: NBU 922-34H**

**NBU 922-34H1BS**  
**WELL PLAT**  
**1418' FNL, 494' FEL (Bottom Hole)**  
**SE ¼ NE ¼ OF SECTION 34, T9S, R22E,**  
**S.L.B.&M., UINTAH COUNTY, UTAH.**

**609**

**CONSULTING, LLC**  
 1095 Saberton Ave.  
 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: 5-14-12	SURVEYED BY: A.F.	SHEET NO: <b>6</b>
DATE DRAWN: 6-15-12	DRAWN BY: J.G.C.	
SCALE: 1" = 1000'		6 OF 20

**Kerr-McGee Oil & Gas Onshore, LP  
WELL PAD – NBU 922-34H  
WELLS – NBU 922-34H4CS, NBU 922-34H4BS,  
NBU 922-34G4CS, NBU 922-34G4BS,  
NBU 922-34H1CS, NBU 922-34H1BS,  
NBU 922-34A4CS & NBU 922-34A4BS  
Section 34, 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 14.4 miles to the intersection of the Fidler Road (County B Road 3410) which road intersection is approximately 400 feet northeast of the Mountain Fuel Bridge at the White River. Exit left and proceed in a southeasterly direction along the Fidler Road approximately 4.4 miles to the intersection of the Seven Sisters Road (County B Road 3420) to the south. Exit right and proceed in a southerly, then southeasterly direction along the Seven Sisters Road approximately 1.2 miles to a Class D County Road to the southwest. Exit right and proceed in a southwesterly then southerly direction along the Class D County Road approximately 0.5 miles to a second Class D County Road to the west. Exit right and proceed in a westerly, then northwesterly direction along the second Class D County Road approximately 0.8 miles to a service road to the south. Exit left and proceed in a southerly, then westerly, then northwesterly direction along the service road approximately 2.6 miles to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 47.4 miles in a southerly direction.

**Kerr-McGee Oil & Gas Onshore. L.P.****NBU 922-34H1BS**

Surface: 1316 FNL / 766 FEL      SENE  
 BHL: 1418 FNL / 494 FEL      SENE

Section 34 T9S R22E

Uintah County, Utah  
 Mineral Lease: UTU-0149077

**ONSHORE ORDER NO. 1****DRILLING PROGRAM**

1. & 2. **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	1,115'	
Birds Nest	1,408'	Water
Mahogany	1,861'	Water
Wasatch	4,255'	Gas
Mesaverde	6,560'	Gas
Sego	8,816'	Gas
TVD	8,855'	
TD	8,872'	

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 Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

1/10/2013

RECEIVED: Aug. 27, 2015

**6. Evaluation Program:**

Please refer to the attached Drilling Program

**7. Abnormal Conditions:**

Maximum anticipated bottom hole pressure calculated at 8855' TVD, approximately equals  
5,402 psi 0.61 psi/ft = actual bottomhole gradient

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

Maximum anticipated surface pressure equals approximately 3,477 psi (bottom hole pressure  
minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

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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:**

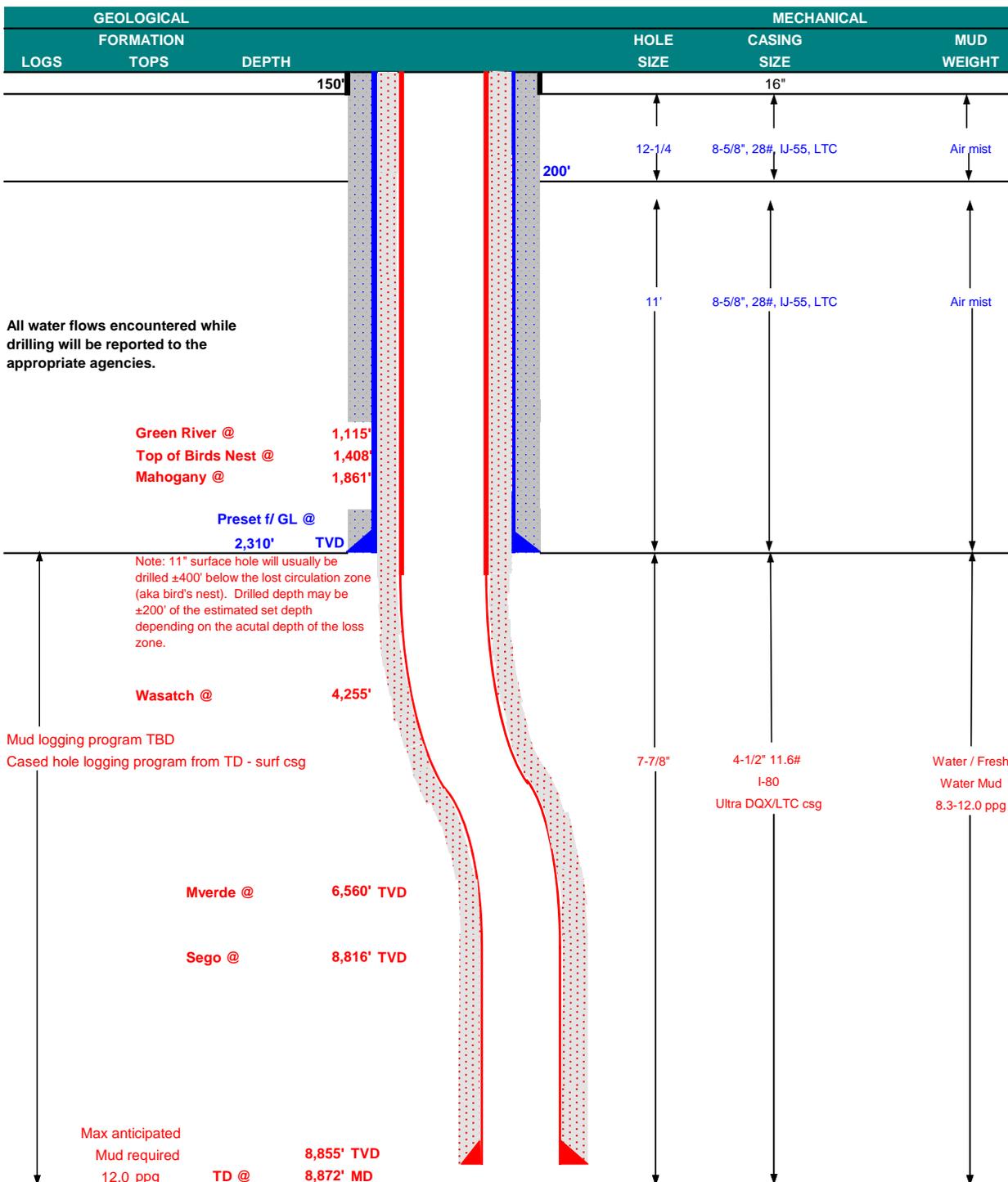
Please refer to the attached Drilling Program.





## KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP			DATE	January 10, 2013		
WELL NAME	<b>NBU 922-34H1BS</b>			TD	8,855' TVD	8,872' MD	
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION 4,854'	
SURFACE LOCATION	SENE	1316 FNL	766 FEL	Sec 34	T 9S	R 22E	
	Latitude:	39.996154	Longitude:	-109.419436		NAD 83	
BTM HOLE LOCATION	SENE	1418 FNL	494 FEL	Sec 34	T 9S	R 22E	
	Latitude:	39.995871	Longitude:	-109.418465		NAD 83	
OBJECTIVE ZONE(S)	Wasatch/Mesaverde						
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.						





**KERR-McGEE OIL & GAS ONSHORE LP**  
**DRILLING PROGRAM**

**CASING PROGRAM**

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS			
						BURST	COLLAPSE	LTC	DQX
								TENSION	
CONDUCTOR	16"	0-150'							
						3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0 to 2,310	28.00	IJ-55	LTC	2.34	1.74	6.14	N/A
						7,780	6,350	223,000	267,035
PRODUCTION	4-1/2"	0 to 5,000	11.60	I-80	DQX	1.11	1.15		3.18
						7,780	6,350	223,000	267,035
	4-1/2"	5,000 to 8,872'	11.60	I-80	LTC	1.11	1.15	6.08	

**Surface Casing:**

(Burst Assumptions: TD = 12.0 ppg) 0.73 psi/ft = frac gradient @ surface shoe  
 Fracture at surface shoe with 0.1 psi/ft gas gradient above  
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing\*Buoy.Fact. of water)

**Production casing:**

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.61 psi/ft = bottomhole gradient  
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing\*Buoy.Fact. of water)

**CEMENT PROGRAM**

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80	1.15
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80	1.15
<b>NOTE: If well will circulate water to surface, option 2 will be utilized</b>							
SURFACE	LEAD	1,810'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	170	35%	11.00	3.82
	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.80	1.15
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	3,752'	Premium Lite II + 0.25 pps celloflake + .4% FL-52 + .3% R-3 + .5 lbs/sk Kol-Seal + 6%Bentonite II + 1.2% Sodium Metasilicate + .05 lbs/sk Static Free	300	35%	12.00	3.38
	TAIL	5,120'	50/50 Poz/G + 10% salt + .05 lbs/sk Static Free + 1.2% Sodium Metasilicate + .5 % EC-1 +.002 gps FP-6L + 2% Bentonite II	1,210	35%	14.30	1.31

\*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained  
 \*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

**FLOAT EQUIPMENT & CENTRALIZERS**

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well. 1 centralizer on the first 3 joints and one every third joint thereafter.

**ADDITIONAL INFORMATION**

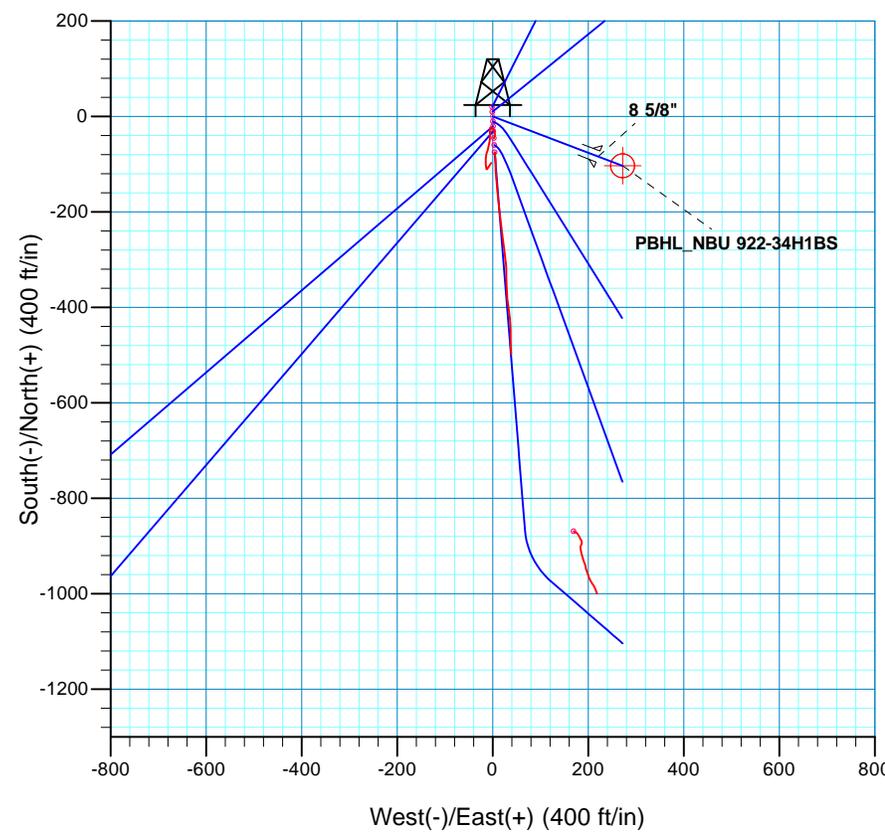
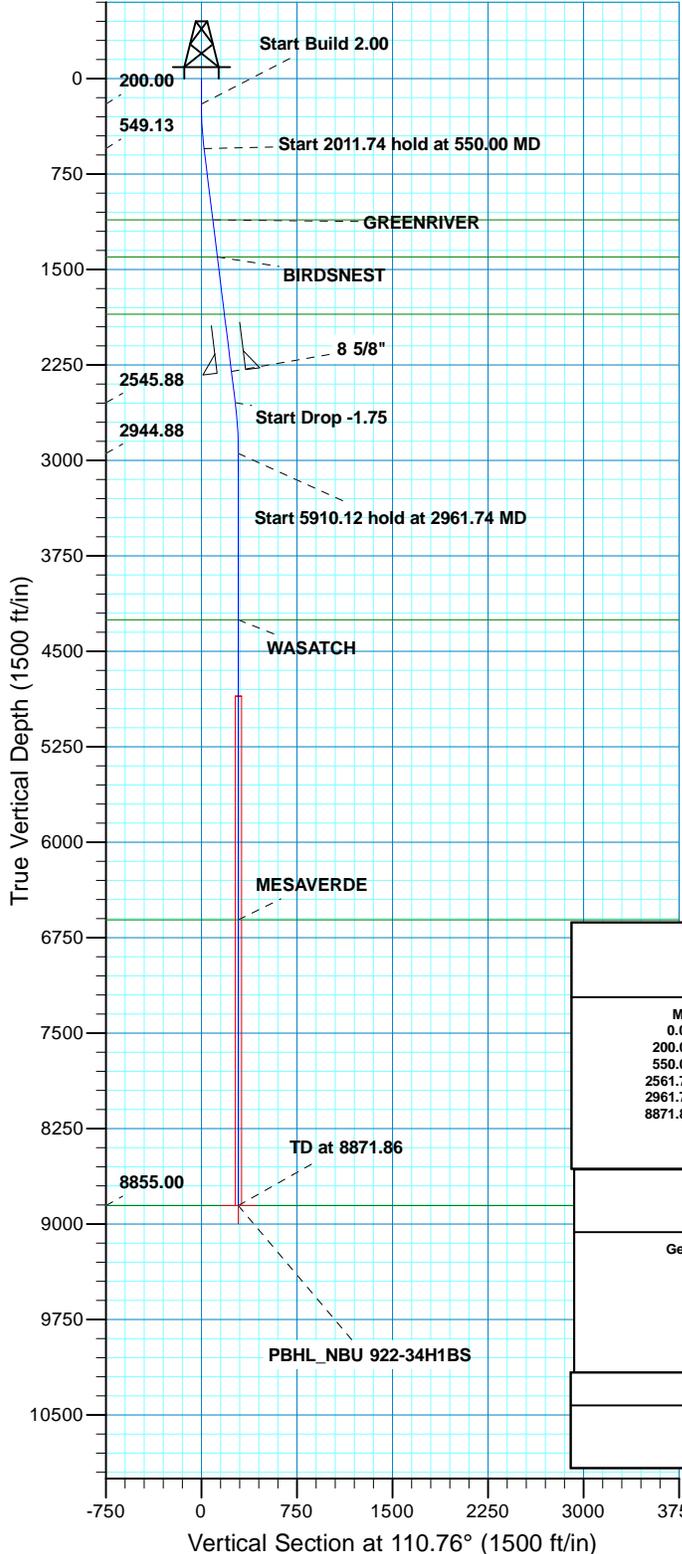
Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.  
 BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.  
 Surveys will be taken at 1,000' minimum intervals.  
 Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.  
 IF extreme mud losses are observed OR cement doesn't reach surface on a well on the pad, a DV Tool may be used. With Cement Baskets above and Below it.

**DRILLING ENGINEER:** \_\_\_\_\_ **DATE:** \_\_\_\_\_  
 Nick Spence / John Tuckwiller / Brian Cocchiere / Tyler Elliott  
**DRILLING SUPERINTENDENT:** \_\_\_\_\_ **DATE:** \_\_\_\_\_  
 Kenny Gathings / Lovel Young



WELL DETAILS: NBU 922-34H1BS								
GL 4854 & KB 4 @ 4858.00R (PROPETRO 12)								
+N-S	+E-W	Northing	Easting	Latitude	Longitude			
0.00	0.00	14528585.19	2083292.51	39.9961892	-109.4187531			
DESIGN TARGET DETAILS								
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude	Shape
PBHL_NBU 922-34H1BS	303.14		272.03	14528486.89	2083566.33	39.9959060	-109.4177820	Circle (Radius: 25.00)
- plan hits target center								

Azimuths to True North  
 Magnetic North: 10.56°  
  
 Magnetic Field  
 Strength: 51884.5snT  
 Dip Angle: 65.84°  
 Date: 7/20/2015  
 Model: BGGM2015



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
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00
550.00	7.00	110.76	549.13	-7.57	19.97	2.00	110.76	21.35
2561.74	7.00	110.76	2545.88	-94.49	249.21	0.00	0.00	266.52
2961.74	0.00	0.00	2944.88	-103.14	272.03	1.75	180.00	290.93
8871.86	0.00	0.00	8855.00	-103.14	272.03	0.00	0.00	290.93
PBHL_NBU 922-34H1BS								
PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N						FORMATION TOP DETAILS		
Geodetic System: Universal Transverse Mercator (US Survey Feet) Datum: NAD 1927 (NADCON CONUS) Ellipsoid: Clarke 1866 Zone: Zone 12N (114 W to 108 W) Location: SECTION 34 T9S R22E System Datum: Mean Sea Level						TVDPath	MDPath	Formation
						1111.00	1116.09	GREENRIVER
						1401.00	1408.27	BIRDSNEST
						1851.00	1861.65	MAHOGANY
						4253.00	4269.86	WASATCH
6610.00	6626.86	MESAVERDE						
CASING DETAILS								
TVD	MD	Name	Size					
2301.00	2315.03	8 5/8"	8.625					

REC



# US ROCKIES REGION PLANNING

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

NBU 922-34H PAD

NBU 922-34H1BS

OH

Plan: PLAN #2 SURFACE

## Standard Planning Report

10 August, 2015





<b>Database:</b>	Denver Sales	<b>Local Co-ordinate Reference:</b>	Well NBU 922-34H1BS
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	GL 4854 & KB 4 @ 4858.00ft (PROPETRO 12)
<b>Project:</b>	UTAH - UTM (feet), NAD27, Zone 12N	<b>MD Reference:</b>	GL 4854 & KB 4 @ 4858.00ft (PROPETRO 12)
<b>Site:</b>	NBU 922-34H PAD	<b>North Reference:</b>	True
<b>Well:</b>	NBU 922-34H1BS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #2 SURFACE		

<b>Project</b>	UTAH - UTM (feet), NAD27, Zone 12N		
<b>Map System:</b>	Universal Transverse Mercator (US Survey Feet)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	Zone 12N (114 W to 108 W)		

<b>Site</b>	NBU 922-34H PAD, SECTION 34 T9S R22E				
<b>Site Position:</b>		<b>Northing:</b>	14,528,589.86 usft	<b>Latitude:</b>	39.9962020
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,083,292.16 usft	<b>Longitude:</b>	-109.4187540
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	13.200 in	<b>Grid Convergence:</b>	1.02 °

<b>Well</b>	NBU 922-34H1BS, 1331 FNL 765 FEL					
<b>Well Position</b>	<b>+N/-S</b>	-4.67 ft	<b>Northing:</b>	14,528,585.19 usft	<b>Latitude:</b>	39.9961892
	<b>+E/-W</b>	0.26 ft	<b>Easting:</b>	2,083,292.51 usft	<b>Longitude:</b>	-109.4187531
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>		<b>Ground Level:</b>	4,854.00 ft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	BGGM2015	7/20/2015	10.56	65.84	51,884

<b>Design</b>	PLAN #2 SURFACE			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	110.76

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	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	
550.00	7.00	110.76	549.13	-7.57	19.97	2.00	2.00	0.00	110.76	
2,561.74	7.00	110.76	2,545.88	-94.49	249.21	0.00	0.00	0.00	0.00	
2,961.74	0.00	0.00	2,944.88	-103.14	272.03	1.75	-1.75	0.00	180.00	
8,871.86	0.00	0.00	8,855.00	-103.14	272.03	0.00	0.00	0.00	0.00	PBHL_NBU 922-34H



## Planning Report



<b>Database:</b>	Denver Sales	<b>Local Co-ordinate Reference:</b>	Well NBU 922-34H1BS
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	GL 4854 & KB 4 @ 4858.00ft (PROPETRO 12)
<b>Project:</b>	UTAH - UTM (feet), NAD27, Zone 12N	<b>MD Reference:</b>	GL 4854 & KB 4 @ 4858.00ft (PROPETRO 12)
<b>Site:</b>	NBU 922-34H PAD	<b>North Reference:</b>	True
<b>Well:</b>	NBU 922-34H1BS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #2 SURFACE		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
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
<b>Start Build 2.00</b>										
300.00	2.00	110.76	299.98	-0.62	1.63	1.75	2.00	2.00	2.00	0.00
400.00	4.00	110.76	399.84	-2.47	6.53	6.98	2.00	2.00	2.00	0.00
500.00	6.00	110.76	499.45	-5.56	14.67	15.69	2.00	2.00	2.00	0.00
550.00	7.00	110.76	549.13	-7.57	19.97	21.35	2.00	2.00	2.00	0.00
<b>Start 2011.74 hold at 550.00 MD</b>										
600.00	7.00	110.76	598.76	-9.73	25.66	27.45	0.00	0.00	0.00	0.00
700.00	7.00	110.76	698.01	-14.05	37.06	39.63	0.00	0.00	0.00	0.00
800.00	7.00	110.76	797.27	-18.37	48.46	51.82	0.00	0.00	0.00	0.00
900.00	7.00	110.76	896.52	-22.69	59.85	64.01	0.00	0.00	0.00	0.00
1,000.00	7.00	110.76	995.78	-27.01	71.25	76.19	0.00	0.00	0.00	0.00
1,100.00	7.00	110.76	1,095.03	-31.33	82.64	88.38	0.00	0.00	0.00	0.00
1,116.09	7.00	110.76	1,111.00	-32.03	84.48	90.34	0.00	0.00	0.00	0.00
<b>GREENRIVER</b>										
1,200.00	7.00	110.76	1,194.28	-35.65	94.04	100.57	0.00	0.00	0.00	0.00
1,300.00	7.00	110.76	1,293.54	-39.97	105.43	112.76	0.00	0.00	0.00	0.00
1,400.00	7.00	110.76	1,392.79	-44.29	116.83	124.94	0.00	0.00	0.00	0.00
1,408.27	7.00	110.76	1,401.00	-44.65	117.77	125.95	0.00	0.00	0.00	0.00
<b>BIRDSNEST</b>										
1,500.00	7.00	110.76	1,492.05	-48.61	128.22	137.13	0.00	0.00	0.00	0.00
1,600.00	7.00	110.76	1,591.30	-52.93	139.62	149.32	0.00	0.00	0.00	0.00
1,700.00	7.00	110.76	1,690.56	-57.25	151.01	161.50	0.00	0.00	0.00	0.00
1,800.00	7.00	110.76	1,789.81	-61.58	162.41	173.69	0.00	0.00	0.00	0.00
1,861.65	7.00	110.76	1,851.00	-64.24	169.43	181.20	0.00	0.00	0.00	0.00
<b>MAHOGANY</b>										
1,900.00	7.00	110.76	1,889.07	-65.90	173.80	185.88	0.00	0.00	0.00	0.00
2,000.00	7.00	110.76	1,988.32	-70.22	185.20	198.06	0.00	0.00	0.00	0.00
2,100.00	7.00	110.76	2,087.58	-74.54	196.60	210.25	0.00	0.00	0.00	0.00
2,200.00	7.00	110.76	2,186.83	-78.86	207.99	222.44	0.00	0.00	0.00	0.00
2,300.00	7.00	110.76	2,286.09	-83.18	219.39	234.63	0.00	0.00	0.00	0.00
2,315.03	7.00	110.76	2,301.00	-83.83	221.10	236.46	0.00	0.00	0.00	0.00
<b>8 5/8"</b>										
2,400.00	7.00	110.76	2,385.34	-87.50	230.78	246.81	0.00	0.00	0.00	0.00
2,500.00	7.00	110.76	2,484.60	-91.82	242.18	259.00	0.00	0.00	0.00	0.00
2,561.74	7.00	110.76	2,545.88	-94.49	249.21	266.52	0.00	0.00	0.00	0.00
<b>Start Drop -1.75</b>										
2,600.00	6.33	110.76	2,583.88	-96.06	253.37	270.96	1.75	-1.75	0.00	0.00
2,700.00	4.58	110.76	2,683.42	-99.43	262.25	280.47	1.75	-1.75	0.00	0.00
2,800.00	2.83	110.76	2,783.21	-101.72	268.30	286.93	1.75	-1.75	0.00	0.00
2,900.00	1.08	110.76	2,883.14	-102.93	271.49	290.35	1.75	-1.75	0.00	0.00
2,961.74	0.00	0.00	2,944.88	-103.14	272.03	290.93	1.75	-1.75	0.00	0.00
<b>Start 5910.12 hold at 2961.74 MD</b>										
3,000.00	0.00	0.00	2,983.14	-103.14	272.03	290.93	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,083.14	-103.14	272.03	290.93	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,183.14	-103.14	272.03	290.93	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,283.14	-103.14	272.03	290.93	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,383.14	-103.14	272.03	290.93	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,483.14	-103.14	272.03	290.93	0.00	0.00	0.00	0.00



<b>Database:</b>	Denver Sales	<b>Local Co-ordinate Reference:</b>	Well NBU 922-34H1BS
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	GL 4854 & KB 4 @ 4858.00ft (PROPETRO 12)
<b>Project:</b>	UTAH - UTM (feet), NAD27, Zone 12N	<b>MD Reference:</b>	GL 4854 & KB 4 @ 4858.00ft (PROPETRO 12)
<b>Site:</b>	NBU 922-34H PAD	<b>North Reference:</b>	True
<b>Well:</b>	NBU 922-34H1BS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #2 SURFACE		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
3,600.00	0.00	0.00	3,583.14	-103.14	272.03	290.93	0.00	0.00	0.00	
3,700.00	0.00	0.00	3,683.14	-103.14	272.03	290.93	0.00	0.00	0.00	
3,800.00	0.00	0.00	3,783.14	-103.14	272.03	290.93	0.00	0.00	0.00	
3,900.00	0.00	0.00	3,883.14	-103.14	272.03	290.93	0.00	0.00	0.00	
4,000.00	0.00	0.00	3,983.14	-103.14	272.03	290.93	0.00	0.00	0.00	
4,100.00	0.00	0.00	4,083.14	-103.14	272.03	290.93	0.00	0.00	0.00	
4,200.00	0.00	0.00	4,183.14	-103.14	272.03	290.93	0.00	0.00	0.00	
4,269.86	0.00	0.00	4,253.00	-103.14	272.03	290.93	0.00	0.00	0.00	
<b>WASATCH</b>										
4,300.00	0.00	0.00	4,283.14	-103.14	272.03	290.93	0.00	0.00	0.00	
4,400.00	0.00	0.00	4,383.14	-103.14	272.03	290.93	0.00	0.00	0.00	
4,500.00	0.00	0.00	4,483.14	-103.14	272.03	290.93	0.00	0.00	0.00	
4,600.00	0.00	0.00	4,583.14	-103.14	272.03	290.93	0.00	0.00	0.00	
4,700.00	0.00	0.00	4,683.14	-103.14	272.03	290.93	0.00	0.00	0.00	
4,800.00	0.00	0.00	4,783.14	-103.14	272.03	290.93	0.00	0.00	0.00	
4,900.00	0.00	0.00	4,883.14	-103.14	272.03	290.93	0.00	0.00	0.00	
5,000.00	0.00	0.00	4,983.14	-103.14	272.03	290.93	0.00	0.00	0.00	
5,100.00	0.00	0.00	5,083.14	-103.14	272.03	290.93	0.00	0.00	0.00	
5,200.00	0.00	0.00	5,183.14	-103.14	272.03	290.93	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,283.14	-103.14	272.03	290.93	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,383.14	-103.14	272.03	290.93	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,483.14	-103.14	272.03	290.93	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,583.14	-103.14	272.03	290.93	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,683.14	-103.14	272.03	290.93	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,783.14	-103.14	272.03	290.93	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,883.14	-103.14	272.03	290.93	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,983.14	-103.14	272.03	290.93	0.00	0.00	0.00	
6,100.00	0.00	0.00	6,083.14	-103.14	272.03	290.93	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,183.14	-103.14	272.03	290.93	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,283.14	-103.14	272.03	290.93	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,383.14	-103.14	272.03	290.93	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,483.14	-103.14	272.03	290.93	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,583.14	-103.14	272.03	290.93	0.00	0.00	0.00	
6,626.86	0.00	0.00	6,610.00	-103.14	272.03	290.93	0.00	0.00	0.00	
<b>MESAVERDE</b>										
6,700.00	0.00	0.00	6,683.14	-103.14	272.03	290.93	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,783.14	-103.14	272.03	290.93	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,883.14	-103.14	272.03	290.93	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,983.14	-103.14	272.03	290.93	0.00	0.00	0.00	
7,100.00	0.00	0.00	7,083.14	-103.14	272.03	290.93	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,183.14	-103.14	272.03	290.93	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,283.14	-103.14	272.03	290.93	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,383.14	-103.14	272.03	290.93	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,483.14	-103.14	272.03	290.93	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,583.14	-103.14	272.03	290.93	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,683.14	-103.14	272.03	290.93	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,783.14	-103.14	272.03	290.93	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,883.14	-103.14	272.03	290.93	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,983.14	-103.14	272.03	290.93	0.00	0.00	0.00	
8,100.00	0.00	0.00	8,083.14	-103.14	272.03	290.93	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,183.14	-103.14	272.03	290.93	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,283.14	-103.14	272.03	290.93	0.00	0.00	0.00	



## Planning Report



<b>Database:</b>	Denver Sales	<b>Local Co-ordinate Reference:</b>	Well NBU 922-34H1BS
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	GL 4854 & KB 4 @ 4858.00ft (PROPETRO 12)
<b>Project:</b>	UTAH - UTM (feet), NAD27, Zone 12N	<b>MD Reference:</b>	GL 4854 & KB 4 @ 4858.00ft (PROPETRO 12)
<b>Site:</b>	NBU 922-34H PAD	<b>North Reference:</b>	True
<b>Well:</b>	NBU 922-34H1BS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #2 SURFACE		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
8,400.00	0.00	0.00	8,383.14	-103.14	272.03	290.93	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,483.14	-103.14	272.03	290.93	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,583.14	-103.14	272.03	290.93	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,683.14	-103.14	272.03	290.93	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,783.14	-103.14	272.03	290.93	0.00	0.00	0.00	
8,871.86	0.00	0.00	8,855.00	-103.14	272.03	290.93	0.00	0.00	0.00	
TD at 8871.86 - PBHL_NBU 922-34H1BS										

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_NBU 922-34H1B: - hit/miss target - Shape - plan hits target center - Circle (radius 25.00)	0.00	0.00	8,855.00	-103.14	272.03	14,528,486.90	2,083,566.33	39.9959060	-109.4177820

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,315.03	2,301.00	8 5/8"	8.625	11.000	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,116.09	1,111.00	GREENRIVER			
1,408.27	1,401.00	BIRDSNEST			
1,861.65	1,851.00	MAHOGANY			
4,269.86	4,253.00	WASATCH			
6,626.86	6,610.00	MESAVERDE			

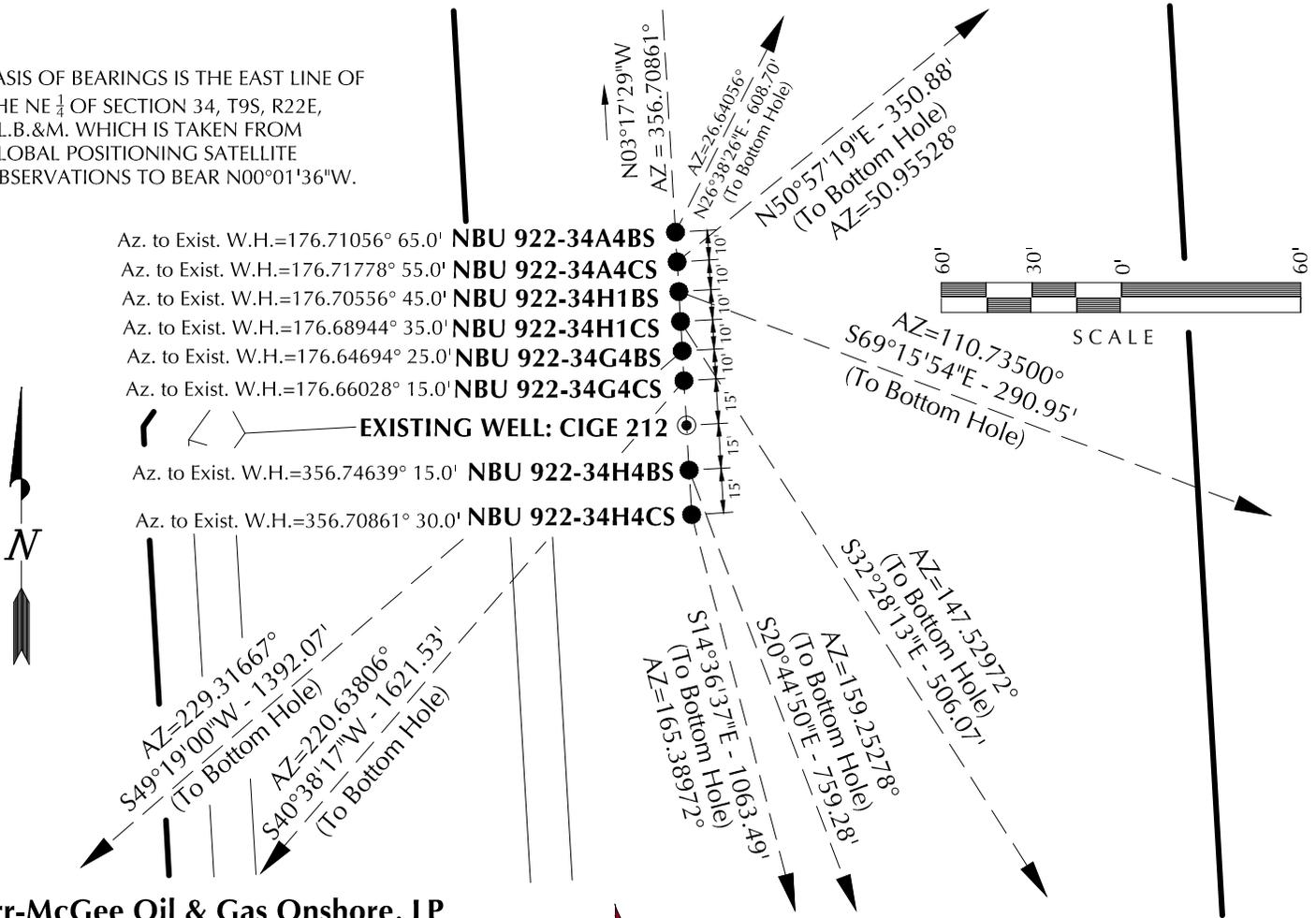
Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment	
200.00	200.00	0.00	0.00	Start Build 2.00	
550.00	549.13	-7.57	19.97	Start 2011.74 hold at 550.00 MD	
2,561.74	2,545.88	-94.49	249.21	Start Drop -1.75	
2,961.74	2,944.88	-103.14	272.03	Start 5910.12 hold at 2961.74 MD	
8,871.86	8,855.00	-103.14	272.03	TD at 8871.86	

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
NBU 922-34H4CS	39°59'45.415"	109°25'09.913"	39°59'45.539"	109°25'07.456"	1390' FNL 762' FEL	39°59'35.246"	109°25'06.474"	39°59'35.371"	109°25'04.017"	2419' FNL 494' FEL
NBU 922-34H4BS	39°59'45.562"	109°25'09.924"	39°59'45.687"	109°25'07.467"	1375' FNL 763' FEL	39°59'38.546"	109°25'06.474"	39°59'38.671"	109°25'04.017"	2085' FNL 494' FEL
NBU 922-34G4CS	39°59'45.859"	109°25'09.946"	39°59'45.984"	109°25'07.489"	1345' FNL 764' FEL	39°59'33.707"	109°25'23.519"	39°59'33.832"	109°25'21.062"	2578' FNL 1821' FEL
NBU 922-34G4BS	39°59'45.958"	109°25'09.954"	39°59'46.082"	109°25'07.496"	1335' FNL 765' FEL	39°59'36.997"	109°25'23.519"	39°59'37.122"	109°25'21.062"	2245' FNL 1821' FEL
NBU 922-34H1CS	39°59'46.056"	109°25'09.961"	39°59'46.180"	109°25'07.503"	1326' FNL 765' FEL	39°59'41.836"	109°25'06.473"	39°59'41.961"	109°25'04.016"	1752' FNL 494' FEL
NBU 922-34H1BS	39°59'46.155"	109°25'09.968"	39°59'46.280"	109°25'07.511"	1316' FNL 766' FEL	39°59'45.136"	109°25'06.473"	39°59'45.260"	109°25'04.016"	1418' FNL 494' FEL
NBU 922-34A4CS	39°59'46.253"	109°25'09.975"	39°59'46.378"	109°25'07.518"	1306' FNL 767' FEL	39°59'48.436"	109°25'06.473"	39°59'48.560"	109°25'04.016"	1084' FNL 494' FEL
NBU 922-34A4BS	39°59'46.352"	109°25'09.982"	39°59'46.476"	109°25'07.525"	1296' FNL 767' FEL	39°59'51.726"	109°25'06.473"	39°59'51.850"	109°25'04.016"	751' FNL 494' FEL
CIGE 212	39°59'45.711"	109°25'09.935"	39°59'45.835"	109°25'07.478"	1360' FNL 763' FEL	39°59'77.020"	109°25'06.473"	39°59'77.360"	109°25'04.016"	

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 922-34H4CS	-1,029.1'	268.3'	NBU 922-34H4BS	-710.0'	269.0'	NBU 922-34G4CS	-1,230.5'	-1,056.1'	NBU 922-34G4BS	-907.5'	-1,055.6'
NBU 922-34H1CS	-427.0'	271.7'	NBU 922-34H1BS	-103.0'	272.1'	NBU 922-34A4CS	221.0'	272.5'	NBU 922-34A4BS	544.1'	272.9'

BASIS OF BEARINGS IS THE EAST LINE OF THE NE 1/4 OF SECTION 34, T9S, R22E, S.L.B.&M. WHICH IS TAKEN FROM GLOBAL POSITIONING SATELLITE OBSERVATIONS TO BEAR N00°01'36"W.



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

WELL PAD - NBU 922-34H

WELL PAD INTERFERENCE PLAT  
WELLS - NBU 922-34H4CS, NBU 922-34H4BS,  
NBU 922-34G4CS, NBU 922-34G4BS,  
NBU 922-34H1CS, NBU 922-34H1BS,  
NBU 922-34A4CS & NBU 922-34A4BS  
LOCATED IN SECTION 34, T9S, R22E,  
S.L.B.&M., Uintah County, Utah.



CONSULTING, LLC  
1095 Saberton Ave.  
Sheridan, WY 82801  
Phone 307-674-0609  
Fax 307-674-0182

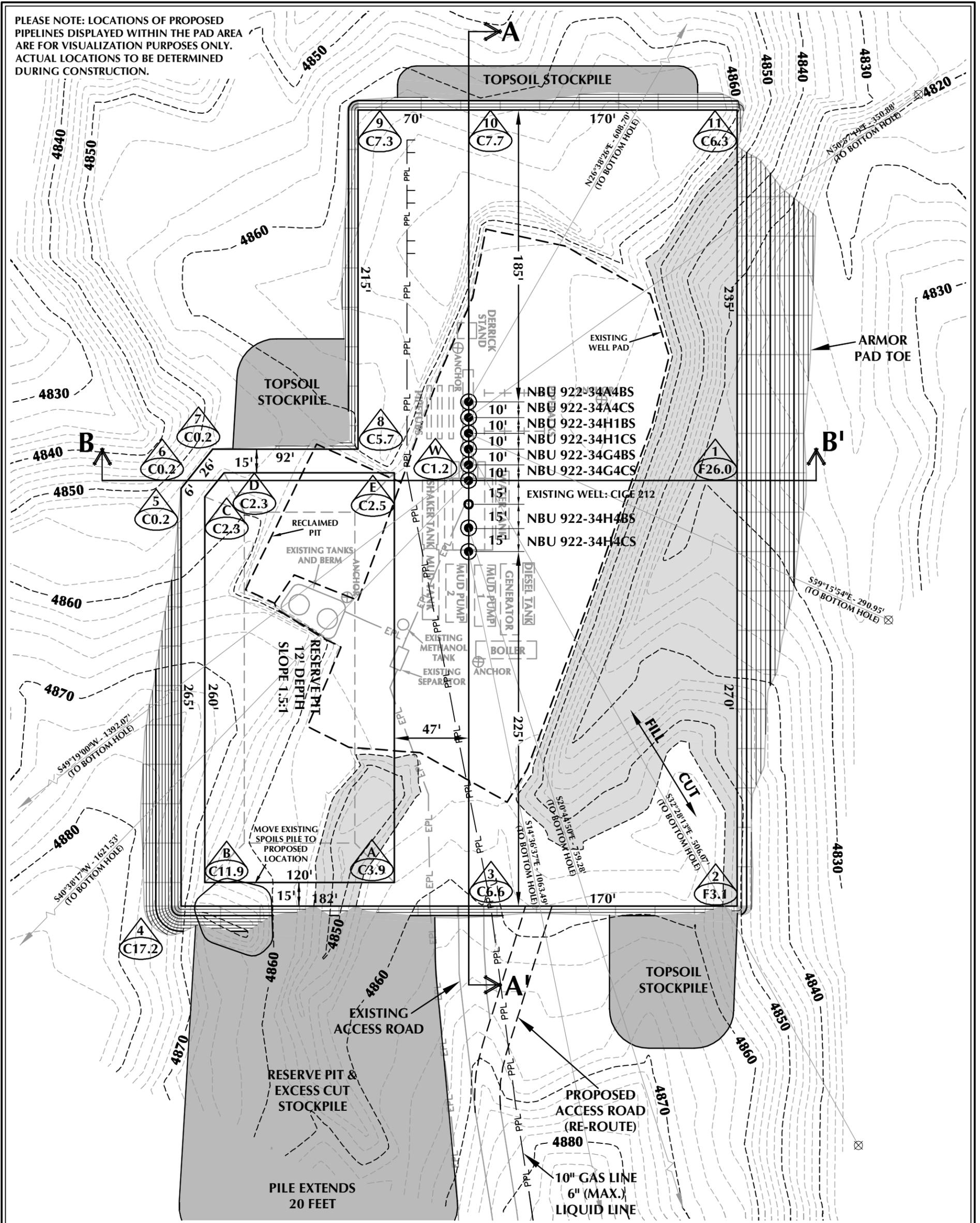


ENGINEERING & LAND SURVEYING, INC.  
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

DATE SURVEYED: 5-14-12	SURVEYED BY: A.F.	SHEET NO: <b>9</b>
DATE DRAWN: 6-15-12	DRAWN BY: J.G.C.	
SCALE: 1" = 60'		9 OF 20
Date Last Revised: 8-14-15 M.W.W.		

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 922-34H DESIGN SUMMARY**

EXISTING GRADE @ CENTER OF WELL PAD = 4855.2'  
 FINISHED GRADE ELEVATION = 4854.0'  
 CUT SLOPES = 1:1  
 FILL SLOPES = 1.5:1  
 TOTAL WELL PAD AREA = 4.12 ACRES  
 TOTAL DISTURBANCE AREA = 5.26 ACRES  
 SHRINKAGE FACTOR = 1.10  
 SWELL FACTOR = 1.00

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

**WELL PAD - NBU 922-34H**  
 WELL PAD - LOCATION LAYOUT  
 NBU 922-34H4CS, NBU 922-34H4BS,  
 NBU 922-34G4CS, NBU 922-34G4BS,  
 NBU 922-34H1CS, NBU 922-34H1BS,  
 NBU 922-34A4CS & NBU 922-34A4BS  
 LOCATED IN SECTION 34, 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

**WELL PAD QUANTITIES**

TOTAL CUT FOR WELL PAD = 24,007 C.Y.  
 TOTAL FILL FOR WELL PAD = 22,745 C.Y.  
 TOPSOIL @ 6" DEPTH = 2,465 C.Y.  
 EXCESS MATERIAL = 1,262 C.Y.

**RESERVE PIT QUANTITIES**

TOTAL CUT FOR RESERVE PIT  
 +/- 11,000 C.Y.  
 RESERVE PIT CAPACITY (2' OF FREEBOARD)  
 +/- 42,230 BARRELS

**WELL PAD LEGEND**

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



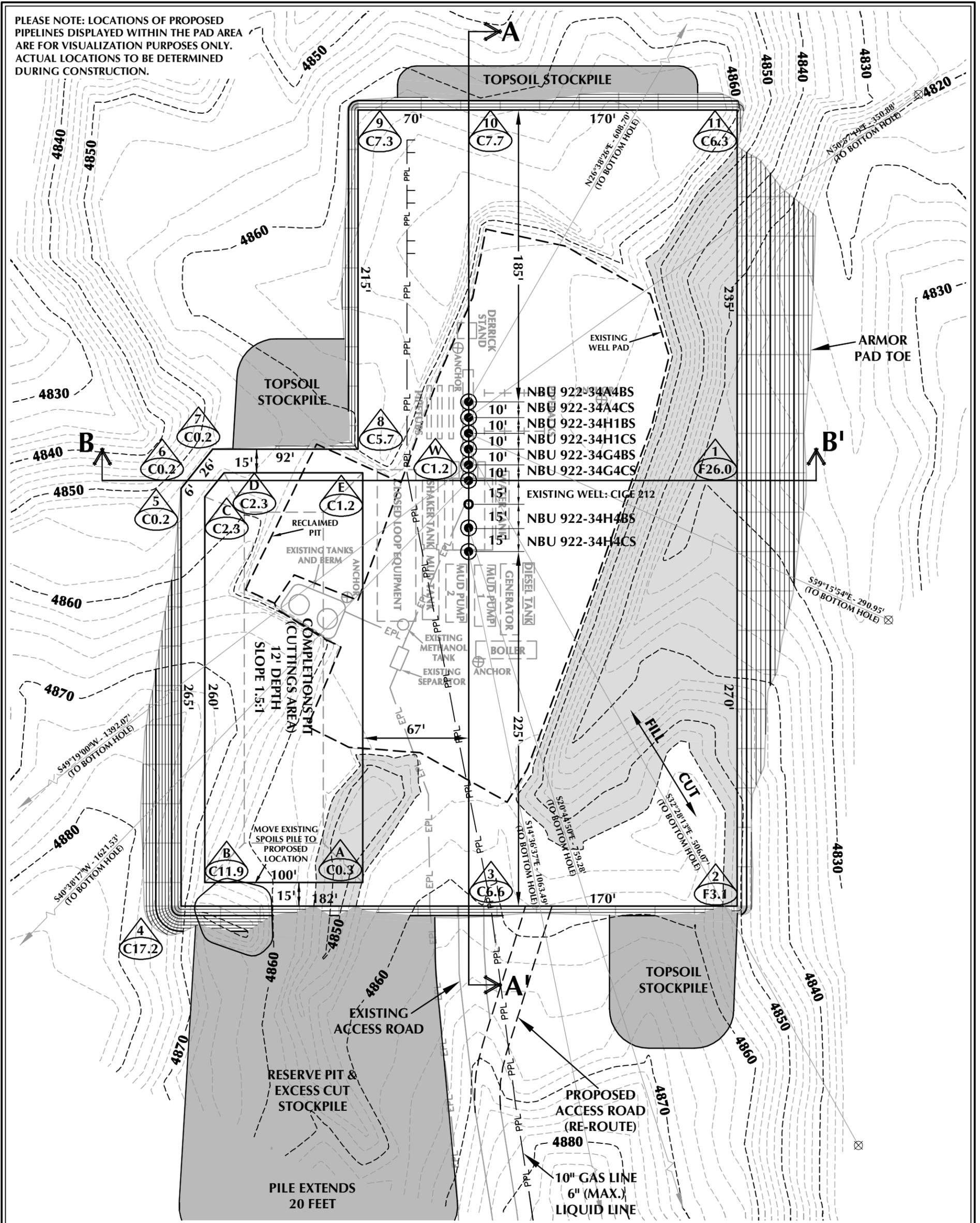
HORIZONTAL 0 30' 60' 1" = 60'

2' CONTOURS

SCALE: 1"=60' DATE: 7/10/12 SHEET NO:  
 REVISED: 8/18/15 **10** 10 OF 20

**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 922-34H (CLOSED LOOP) DESIGN SUMMARY**

EXISTING GRADE @ CENTER OF WELL PAD = 4855.2'  
 FINISHED GRADE ELEVATION = 4854.0'  
 CUT SLOPES = 1:1  
 FILL SLOPES = 1.5:1  
 TOTAL WELL PAD AREA = 4.12 ACRES  
 TOTAL DISTURBANCE AREA = 5.26 ACRES  
 SHRINKAGE FACTOR = 1.10  
 SWELL FACTOR = 1.00

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

**WELL PAD - NBU 922-34H**

WELL PAD - LOCATION LAYOUT  
 NBU 922-34H4CS, NBU 922-34H4BS,  
 NBU 922-34G4CS, NBU 922-34G4BS,  
 NBU 922-34H1CS, NBU 922-34H1BS,  
 NBU 922-34A4CS & NBU 922-34A4BS  
 LOCATED IN SECTION 34, 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

**WELL PAD QUANTITIES**

TOTAL CUT FOR WELL PAD = 24,007 C.Y.  
 TOTAL FILL FOR WELL PAD = 22,745 C.Y.  
 TOPSOIL @ 6" DEPTH = 2,465 C.Y.  
 EXCESS MATERIAL = 1,262 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**

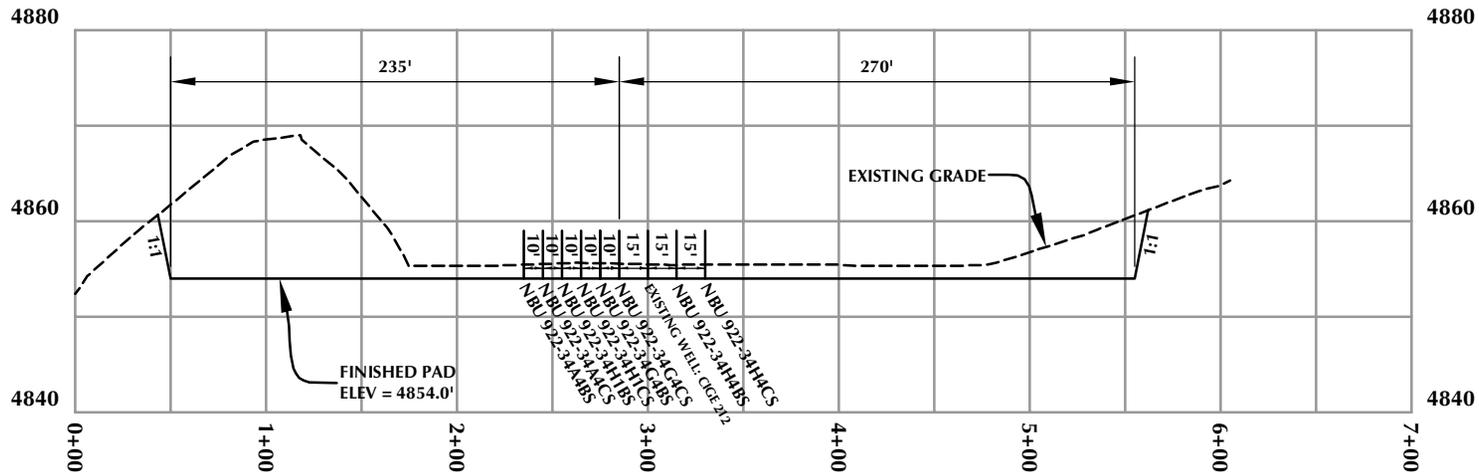
- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL - PROPOSED PIPELINE
- EPL - EXISTING PIPELINE



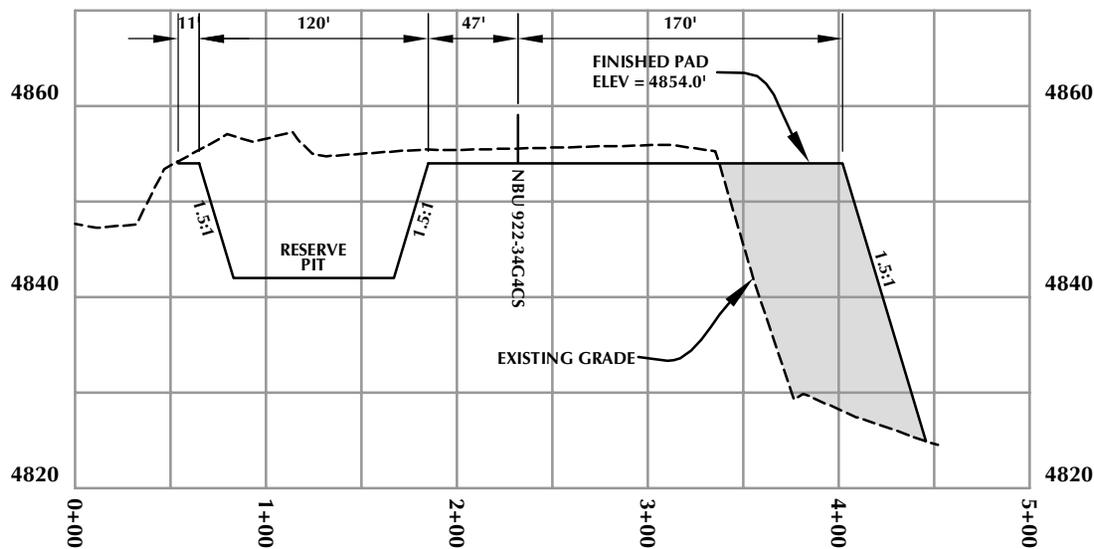
HORIZONTAL 0 30' 60' 1" = 60'  
 2' CONTOURS

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

SCALE: 1"=60' DATE: 9/19/12 SHEET NO:  
 REVISED: 8/18/15 **10B** 10B OF 20



**CROSS SECTION A-A'**



**CROSS SECTION B-B'**

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

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

**WELL PAD - NBU 922-34H**

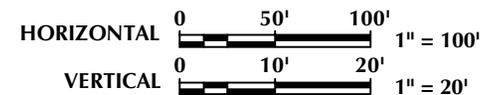
**WELL PAD - CROSS SECTIONS**  
NBU 922-34H4CS, NBU 922-34H4BS,  
NBU 922-34G4CS, NBU 922-34G4BS,  
NBU 922-34H1CS, NBU 922-34H1BS,  
NBU 922-34A4CS & NBU 922-34A4BS  
LOCATED IN SECTION 34, T9S, R22E,  
S.L.B.&M., UINTAH COUNTY, UTAH



**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: 7/10/12

SHEET NO:

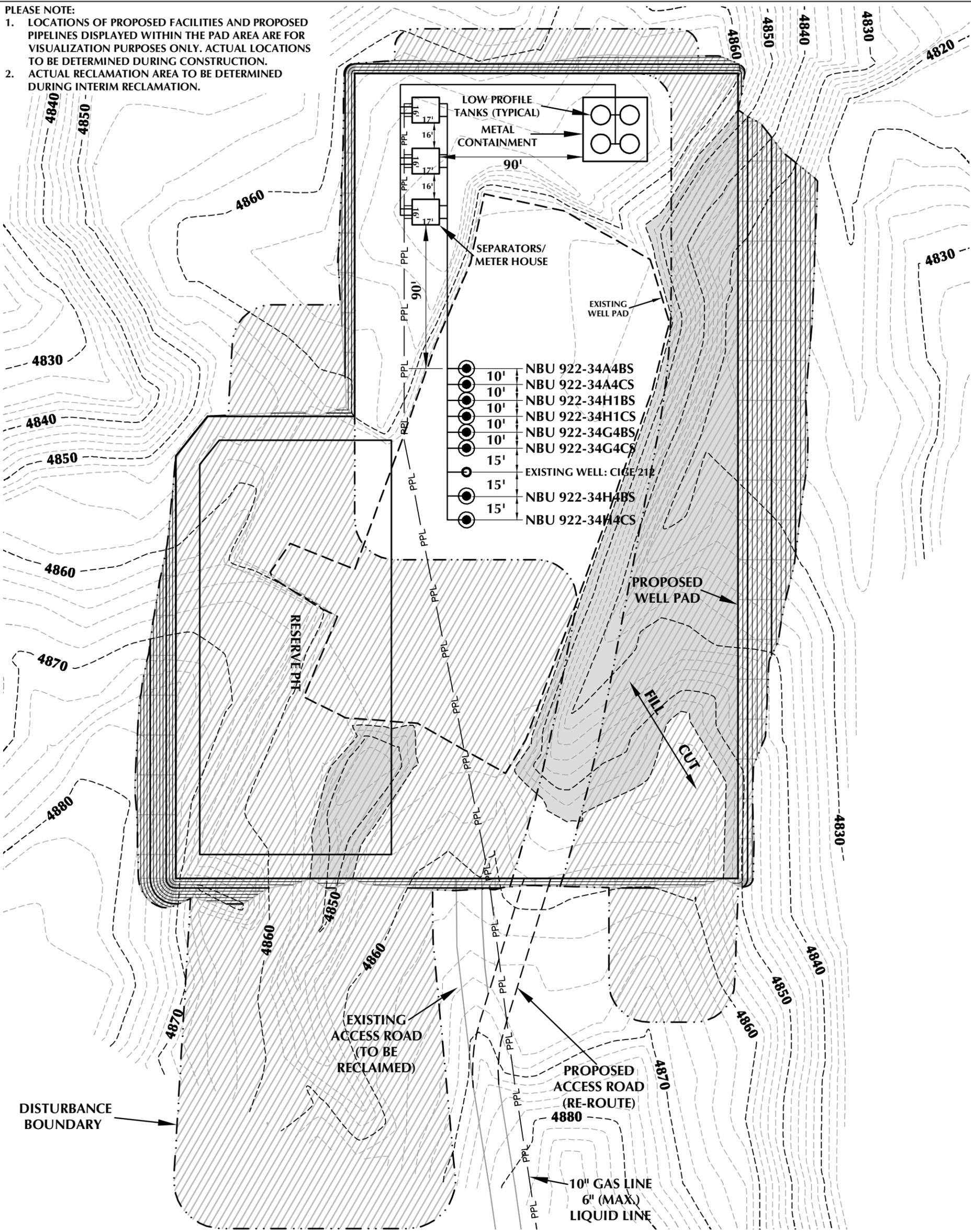
REVISED:

8/18/15

**11** 11 OF 20

**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 922-34H DESIGN SUMMARY**

TOTAL DISTURBANCE AREA = 5.26 ACRES (INCLUDING EXISTING)  
 RECLAMATION AREA = 3.76 ACRES  
 TOTAL WELL PAD AREA AFTER RECLAMATION = 1.50 ACRES

**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
- RECLAMATION AREA



HORIZONTAL 0 30' 60' 1" = 60'

2' CONTOURS

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

**WELL PAD - NBU 922-34H**

WELL PAD - RECLAMATION LAYOUT  
 NBU 922-34H4CS, NBU 922-34H4BS,  
 NBU 922-34G4CS, NBU 922-34G4BS,  
 NBU 922-34H1CS, NBU 922-34H1BS,  
 NBU 922-34A4CS & NBU 922-34A4BS  
 LOCATED IN SECTION 34, 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"=60'

DATE: 7/10/12

SHEET NO:

REVISED:

8/18/15

**12**

12 OF 20

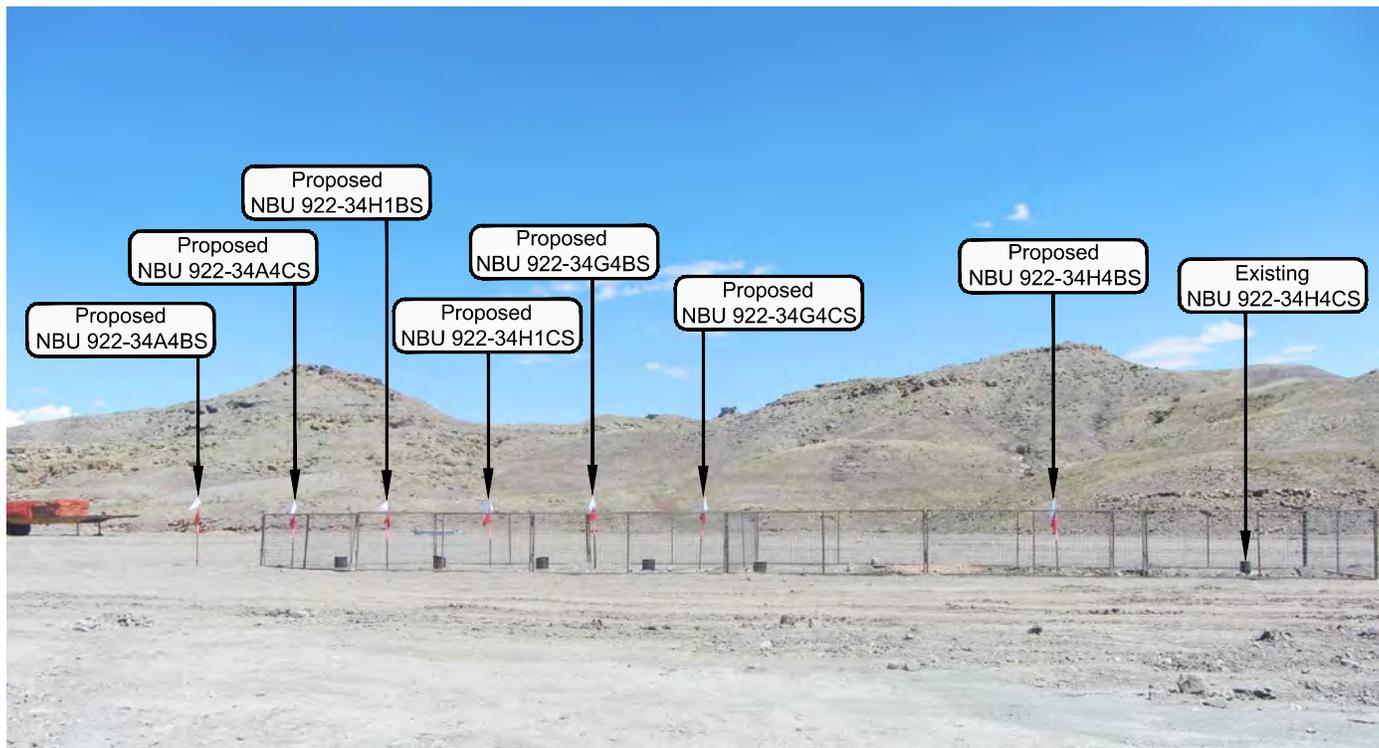


PHOTO VIEW: FROM LOCATION STAKE TO CORNER #1

CAMERA ANGLE: EASTERLY



PHOTO VIEW: FROM EXISTING ACCESS ROAD

CAMERA ANGLE: NORTHERLY

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

**WELL PAD - NBU 922-34H**

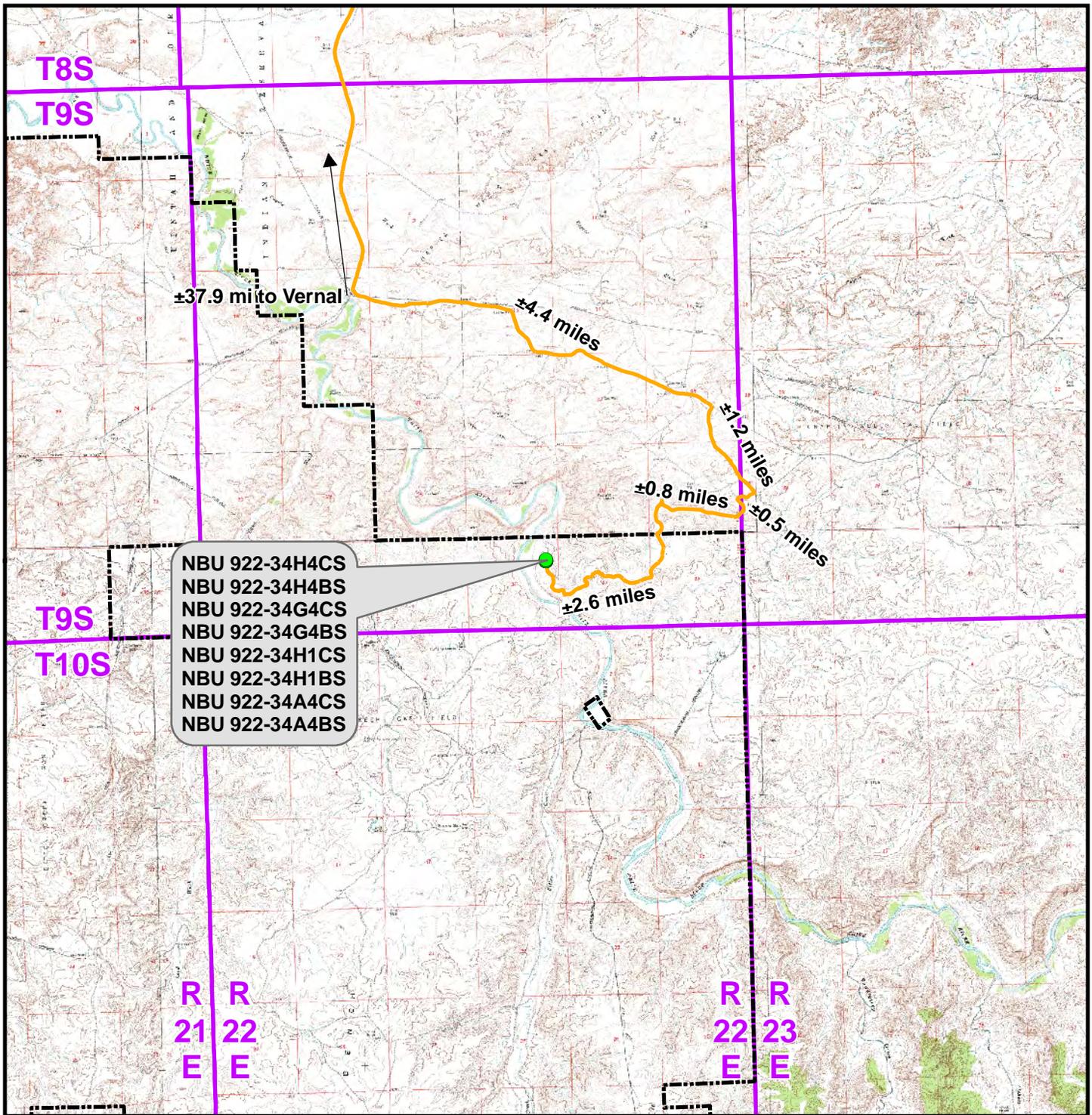
LOCATION PHOTOS  
NBU 922-34H4CS, NBU 922-34H4BS,  
NBU 922-34G4CS, NBU 922-34G4BS,  
NBU 922-34H1CS, NBU 922-34H1BS,  
NBU 922-34A4CS & NBU 922-34A4BS  
LOCATED IN SECTION 34, T9S, R22E,  
S.L.B.&M., UINTAH COUNTY, UTAH.



**CONSULTING, LLC**  
1095 Saberton Ave.  
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 PHOTOS TAKEN: 5-14-12	PHOTOS TAKEN BY: A.F.	SHEET NO: <b>13</b>
DATE DRAWN: 6-15-12	DRAWN BY: J.G.C.	
Date Last Revised: 8-13-15 M.W.W.		13 OF 20



File: K:\ANADARKO\2012\2012\_36\_NBU\_FOCUS\_922-34\GIS\Maps\_ABCDENBU\_922-34\NBU\_922-34H\_A.mxd, 9/22/2012 3:09:51 PM

**Legend**

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

Distance From Well Pad - NBU 922-34H To Unit Boundary: ±1,311ft

**WELL PAD - NBU 922-34H**

**TOPO A**

NBU 922-34H4CS, NBU 922-34H4BS,  
 NBU 922-34G4CS, NBU 922-34G4BS,  
 NBU 922-34H1CS, NBU 922-34H1BS,  
 NBU 922-34A4CS & NBU 922-34A4BS  
 LOCATED IN SECTION 34, T9S, R22E,  
 S.L.B.&M., UINTAH COUNTY, UTAH

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

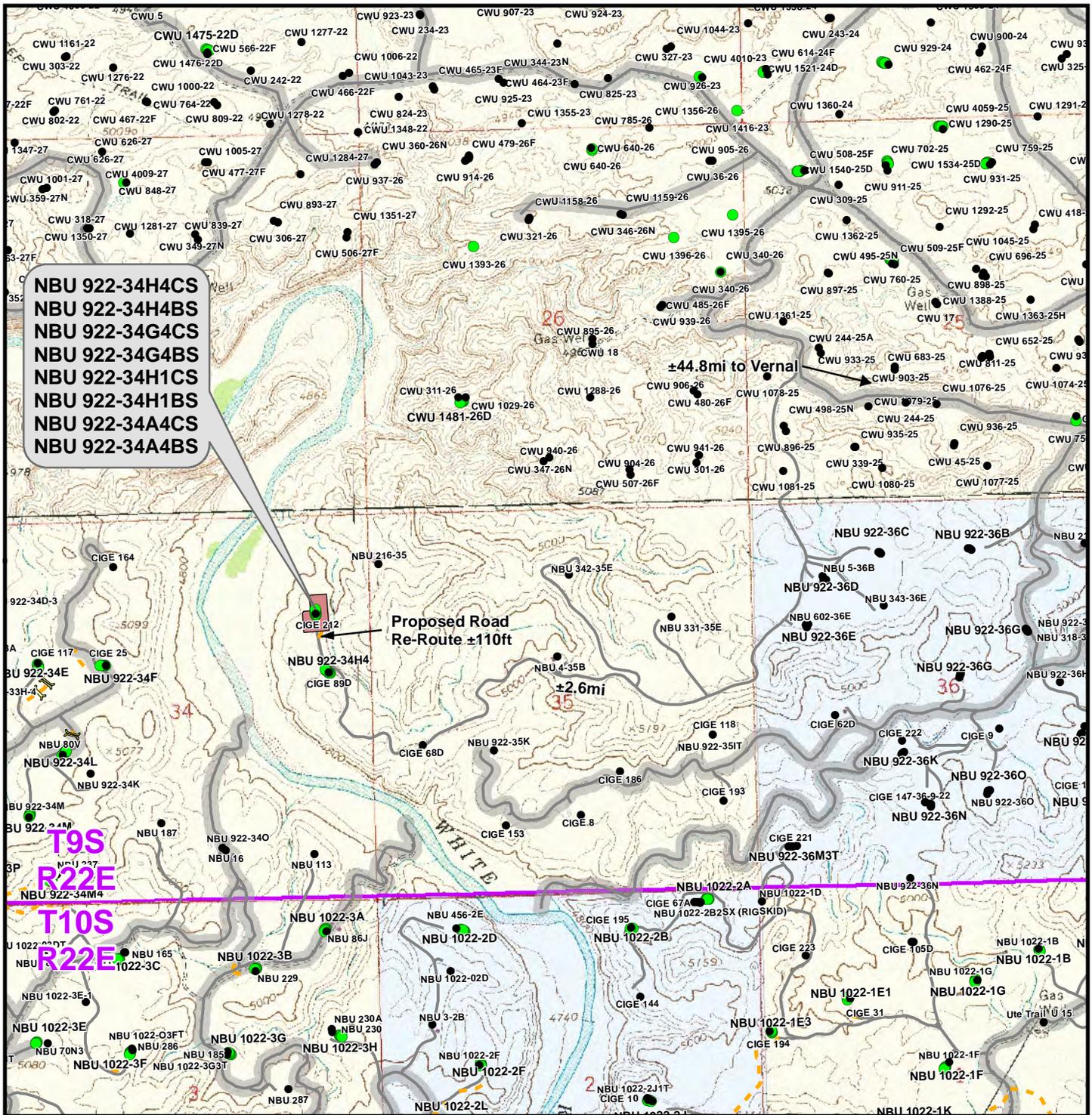
1099 18th Street  
 Denver, Colorado 80202



**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: 5 July 2012	<b>14</b>
REVISED:	DATE:	



NBU 922-34H4CS  
 NBU 922-34H4BS  
 NBU 922-34G4CS  
 NBU 922-34G4BS  
 NBU 922-34H1CS  
 NBU 922-34H1BS  
 NBU 922-34A4CS  
 NBU 922-34A4BS

Proposed Road  
 Re-Route ±110ft

±44.8mi to Vernal

±2.6mi

File: K:\ANADARKO\2012\2012\_36\_NBU\_FOCUS\_922-34\GIS\Maps\_ABCDENBU\_922-34H\NBU\_922-34H\_B.mxd, 9/22/2012 1:39:17 PM

**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 Re-Route Length: ±110ft

**WELL PAD - NBU 922-34H**

TOPO B  
 NBU 922-34H4CS, NBU 922-34H4BS,  
 NBU 922-34G4CS, NBU 922-34G4BS,  
 NBU 922-34H1CS, NBU 922-34H1BS,  
 NBU 922-34A4CS & NBU 922-34A4BS  
 LOCATED IN SECTION 34, T9S, R22E,  
 S.L.B.&M., Uintah County, Utah

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

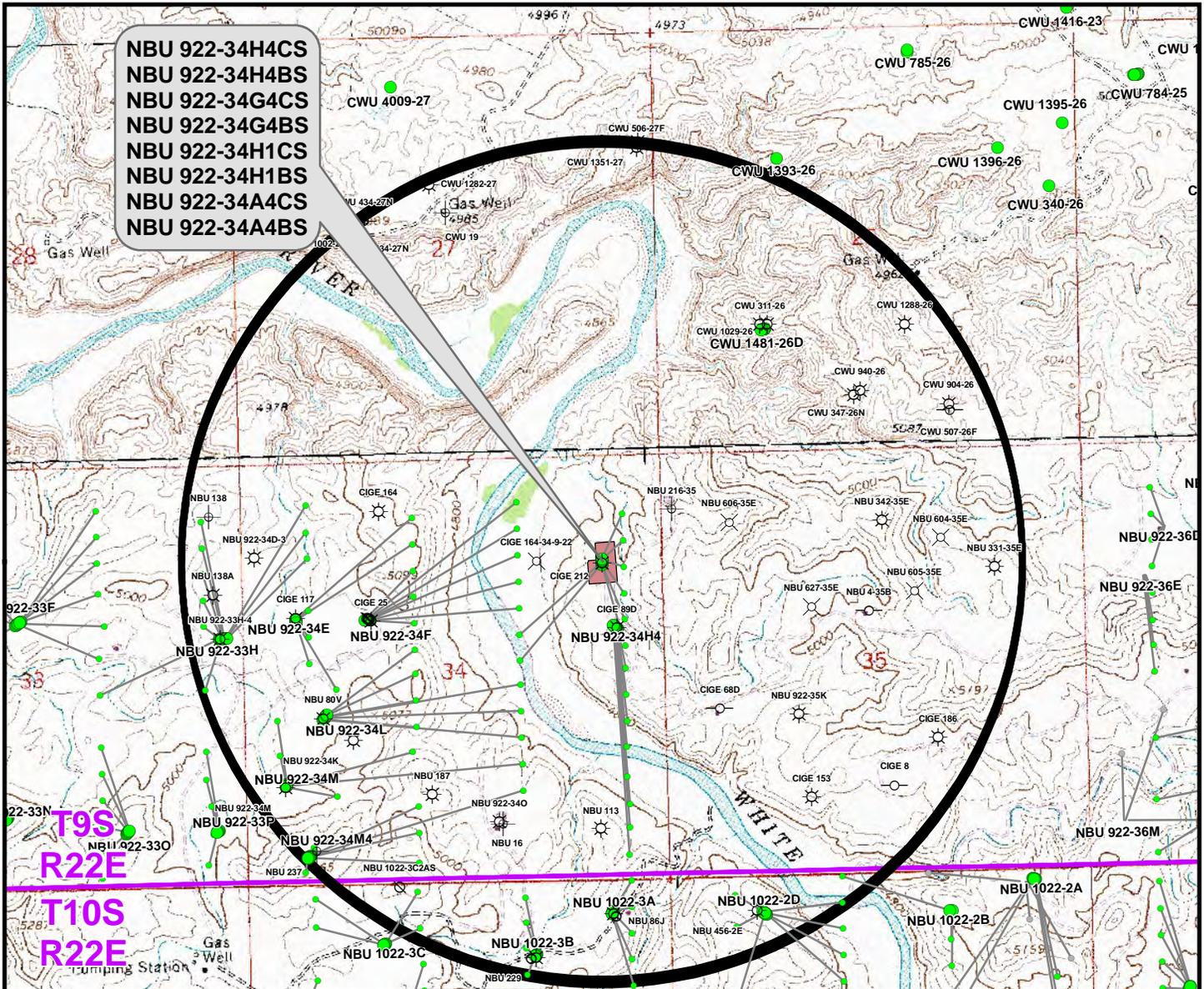
1099 18th Street  
 Denver, Colorado 80202



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

SCALE: 1" = 2,000ft	NAD83 USP Central	15
DRAWN: TL	DATE: 5 July 2012	
REVISED: TL	DATE: 18 Sept 2012	

SHEET NO:  
 15 OF 20



File: K:\ANADARKO\2012\12\_36\_NBU\_FOCUS\_922-34\GIS\Maps\_ABCDENBU\_922-34H\_C.mxd, 9/21/2012 9:32:43 AM

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 922-34H4CS	CIGE 89D	256ft
NBU 922-34H4BS	CIGE 89D	143ft
NBU 922-34G4CS	CIGE 89D	1,285ft
NBU 922-34G4BS	CIGE 89D	1,225ft
NBU 922-34H1CS	CIGE 89D	444ft
NBU 922-34H1BS	CIGE 212	276ft
NBU 922-34A4CS	CIGE 89D	385ft
NBU 922-34A4BS	NBU 216-35	619ft

**Legend**

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

**WELL PAD - NBU 922-34H**

TOPO C  
 NBU 922-34H4CS, NBU 922-34H4BS,  
 NBU 922-34G4CS, NBU 922-34G4BS,  
 NBU 922-34H1CS, NBU 922-34H1BS,  
 NBU 922-34A4CS & NBU 922-34A4BS  
 LOCATED IN SECTION 34, T9S, R22E,  
 S.L.B.&M., Uintah County, Utah

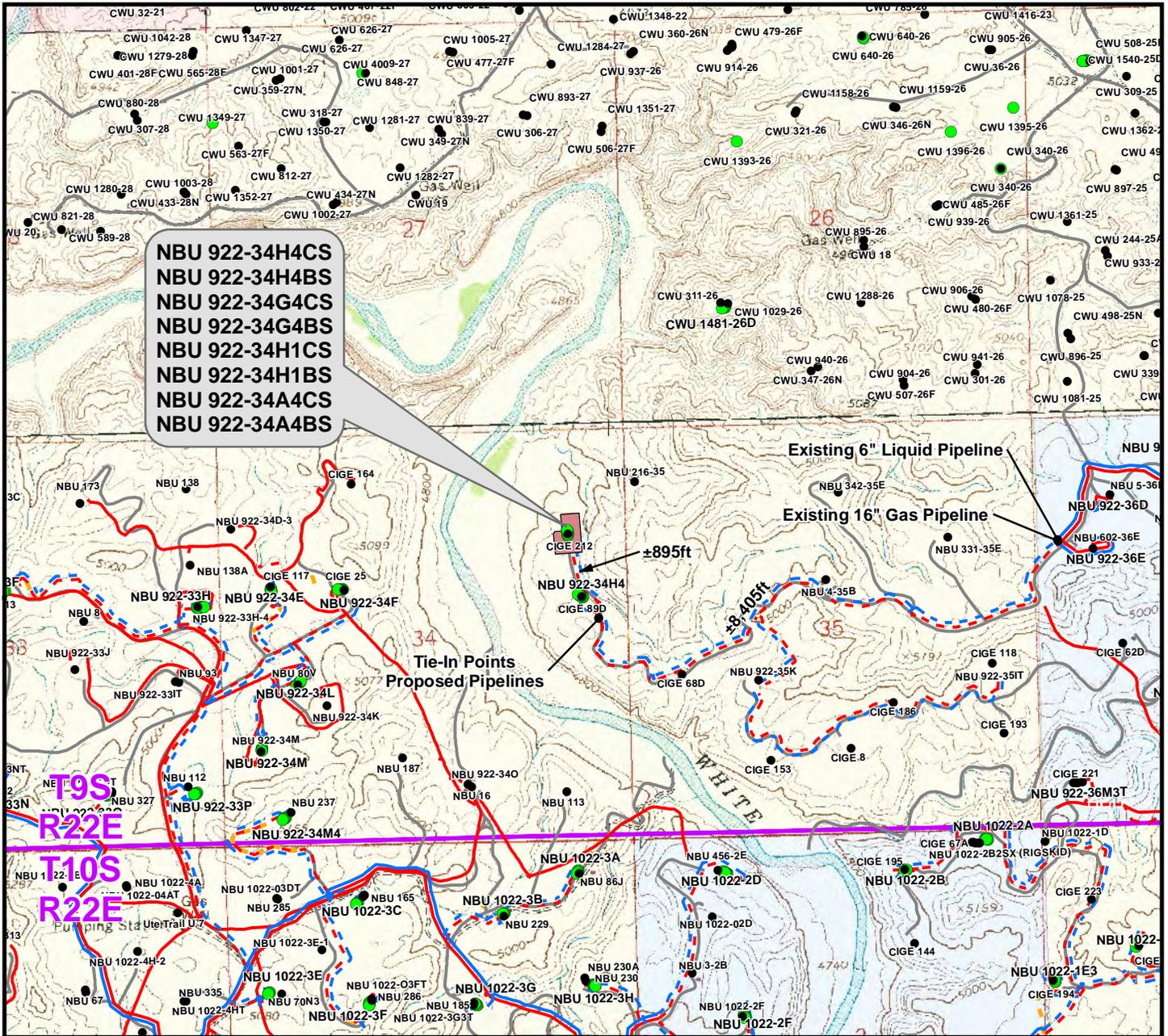
**Kerr-McGee Oil &  
 Gas Onshore L.P.**  
 1099 18th Street  
 Denver, Colorado 80202



**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: 18 Sept 2012	
REVISED:	DATE:	

SHEET NO:  
16 OF 20



NBU 922-34H4CS  
 NBU 922-34H4BS  
 NBU 922-34G4CS  
 NBU 922-34G4BS  
 NBU 922-34H1CS  
 NBU 922-34H1BS  
 NBU 922-34A4CS  
 NBU 922-34A4BS

Existing 6" Liquid Pipeline  
 Existing 16" Gas Pipeline

Tie-In Points  
 Proposed Pipelines

File: K:\ANADARKO\2012\2012\_36\_NBU\_FOCUS\_922-34\GIS\Maps\_ABCDENBU\_922-34H.D.mxd, 9/22/2012 3:08:58 PM

Proposed Liquid Pipeline	Length	Proposed Gas Pipeline	Length
Buried 6" (Max.) (Separator to Edge of Pad)	±200ft	Buried 10" (Meter House to Edge of Pad)	±200ft
Buried 6" (Max.) (Edge of Pad to 34H4 Intersection)	±895ft	Buried 10" (Edge of Pad to 34H4 Intersection)	±895ft
<b>TOTAL PROPOSED BURIED LIQUID PIPELINE =</b>	<b>±1,095ft</b>	<b>TOTAL PROPOSED BURIED GAS PIPELINE =</b>	<b>±1,095ft</b>

**Legend**

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

**WELL PAD - NBU 922-34H**

TOPO D  
 NBU 922-34H4CS, NBU 922-34H4BS,  
 NBU 922-34G4CS, NBU 922-34G4BS,  
 NBU 922-34H1CS, NBU 922-34H1BS,  
 NBU 922-34A4CS & NBU 922-34A4BS  
 LOCATED IN SECTION 34, T9S, R22E,  
 S.L.B.&M., UINTAH COUNTY, UTAH

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

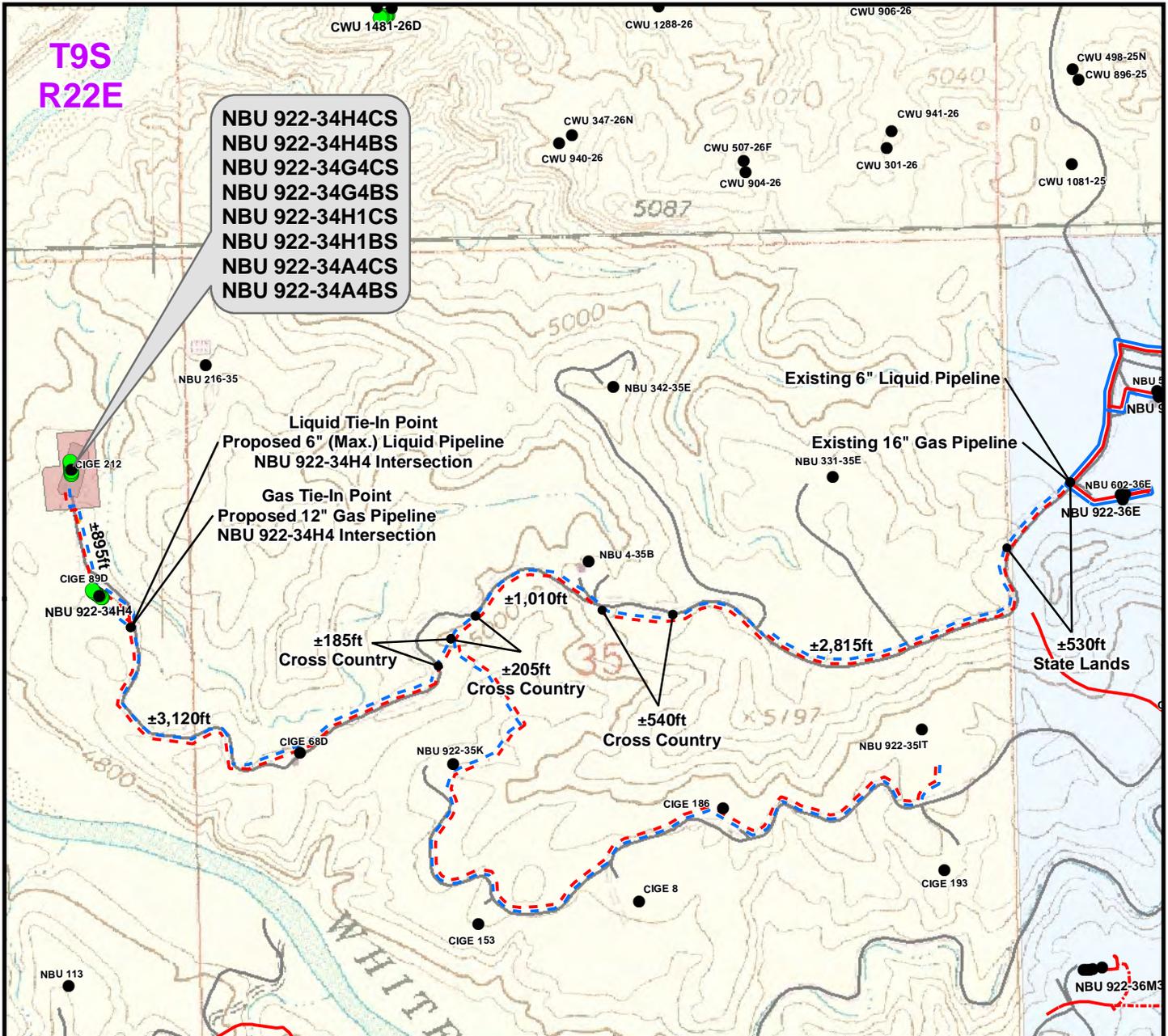
1099 18th Street  
 Denver, Colorado 80202

**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	<b>17</b>
DRAWN: TL	DATE: 18 Sept 2012	
REVISED:	DATE:	

SHEET NO:  
17 OF 20



**NBU 922-34H4CS  
 NBU 922-34H4BS  
 NBU 922-34G4CS  
 NBU 922-34G4BS  
 NBU 922-34H1CS  
 NBU 922-34H1BS  
 NBU 922-34A4CS  
 NBU 922-34A4BS**

**Liquid Tie-In Point  
 Proposed 6" (Max.) Liquid Pipeline  
 NBU 922-34H4 Intersection**

**Gas Tie-In Point  
 Proposed 12" Gas Pipeline  
 NBU 922-34H4 Intersection**

**Existing 6" Liquid Pipeline**

**Existing 16" Gas Pipeline**

**±530ft  
 State Lands**

**±185ft  
 Cross Country**

**±205ft  
 Cross Country**

**±540ft  
 Cross Country**

**±2,815ft**

**±3,120ft**

**±1,010ft**

Proposed Liquid Pipeline	Length
----- Buried 6" (Max.) (Separator to Edge of Pad)	±200ft
----- Buried 6" (Max.) (Edge of Pad to 34H4 Intersection)	±895ft
<b>TOTAL PROPOSED BURIED LIQUID PIPELINE =</b>	<b>±1,095ft</b>

Proposed Gas Pipeline	Length
----- Buried 10" (Meter House to Edge of Pad)	±200ft
----- Buried 10" (Edge of Pad to 34H4 Intersection)	±895ft
<b>TOTAL PROPOSED BURIED GAS PIPELINE =</b>	<b>±1,095ft</b>

**Legend**

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

**WELL PAD - NBU 922-34H**

**TOPO D2 (PAD & PIPELINE DETAIL)  
 NBU 922-34H4CS, NBU 922-34H4BS,  
 NBU 922-34G4CS, NBU 922-34G4BS,  
 NBU 922-34H1CS, NBU 922-34H1BS,  
 NBU 922-34A4CS & NBU 922-34A4BS  
 LOCATED IN SECTION 34, T9S, R22E,  
 S.L.B.&M., Uintah County, Utah**

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

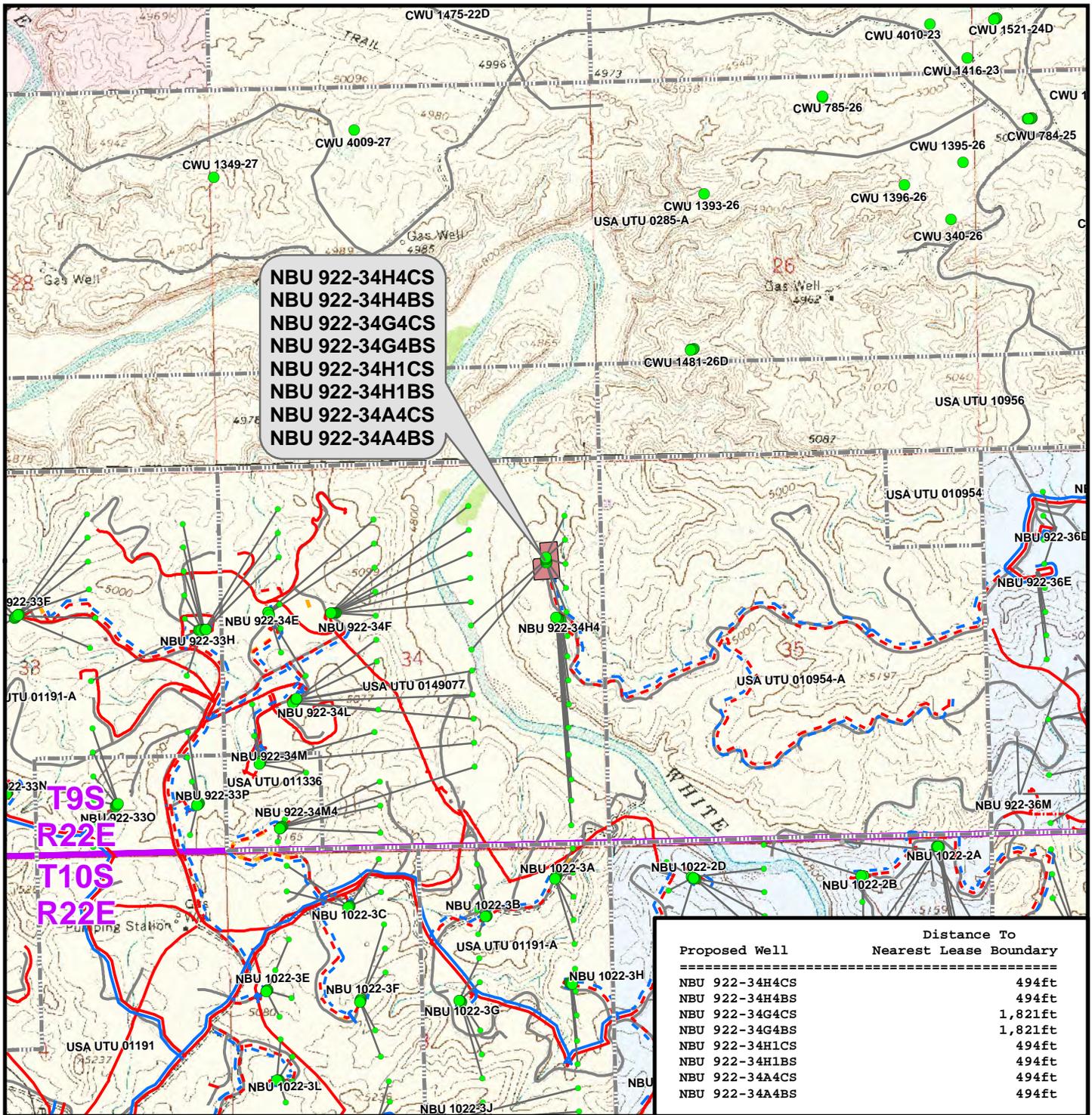
**1099 18th Street  
 Denver, Colorado 80202**



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

SCALE: 1" = 1,000ft	NAD83 USP Central	<b>18</b> 18 OF 20
DRAWN: TL	DATE: 5 July 2012	
REVISED: TL	DATE: 18 Sept 2012	

File: K:\ANADARKO\2012\12\_36\_NBU\_FOCUS\_922-34\GIS\Maps\_ABCDENBU\_922-34H\_NBU\_922-34H\_D2.mxd, 9/21/2012 9:51:04 AM



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**Legend**

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

**WELL PAD - NBU 922-34H**

TOPO E

NBU 922-34H4CS, NBU 922-34H4BS,  
 NBU 922-34G4CS, NBU 922-34G4BS,  
 NBU 922-34H1CS, NBU 922-34H1BS,  
 NBU 922-34A4CS & NBU 922-34A4BS  
 LOCATED IN SECTION 34, 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: 18 Sept 2012

**19**

REVISED:

DATE:

19 OF 20

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-0149077
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> NBU 922-34H1BS
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047537400000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6104
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1316 FNL 0766 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENE Section: 34 Township: 09.0S Range: 22.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>9/15/2015</b>	<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 checked="" type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

KERR MCGEE OIL & GAS ONSHORE LP, is requesting to plug and abandon the NBU 922-34H1BS due to a surface location change. Current wellbore has 24" Conductor hole to 40'. See the attached procedure to plug the conductor hole.

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

**Date:** ~~September 29, 2015~~  
**By:**

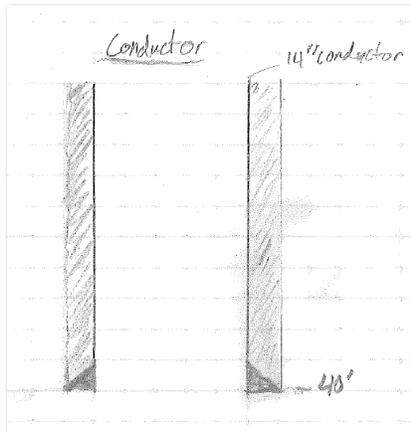
<b>NAME (PLEASE PRINT)</b> Doreen Green	<b>PHONE NUMBER</b> 435 781-9758	<b>TITLE</b> Regulatory Analyst II
<b>SIGNATURE</b> N/A	<b>DATE</b> 9/8/2015	

## P&A Procedure NBU 922-34H Pad

40 feet Conductor P&A on the following wells

- 1) NBU 922-34H4BS
- 2) NBU 922-34G4BS
- 3) NBU 922-34H1CS
- 4) **NBU 922-34H1BS**
- 5) NBU 922-34A4CS
- 6) NBU 922-34A4BS

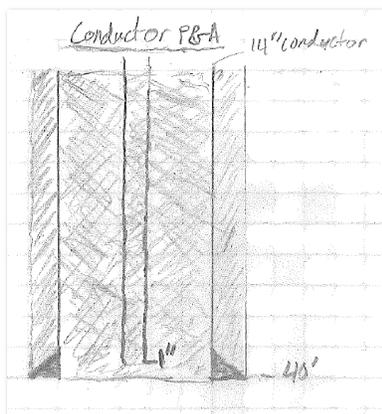
Well Bore Diagram (Before)



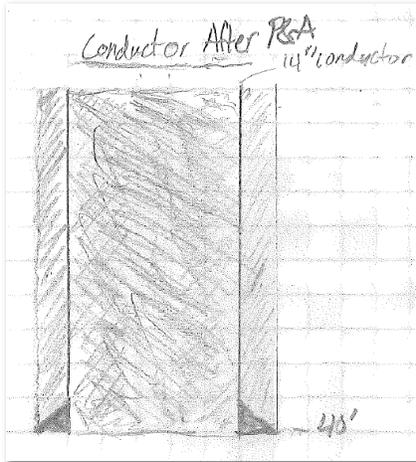
Procedure

- 1) Run 1" pipe to TD of Conductor ~40 feet.
- 2) Rig up cementers and pressure cement through 1".
- 3) Pump approximately 7.6 bbls of cement (until hole is full).
- 4) Any water is to be sucked up with Vac Truck.
- 5) Pull 1" after pressure cementing is complete
- 6) Top off hole with cement as needed.

P&A Well Bore Diagram (During)

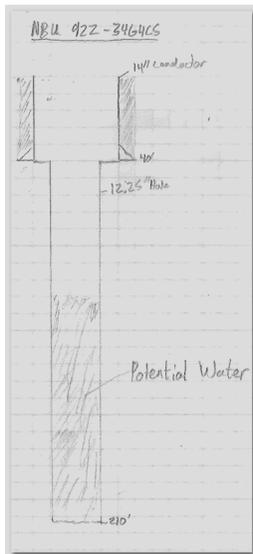


**P&A Wellbore Diagram (After)**



**P&A of NBU 922-34G4CS (210 feet)**

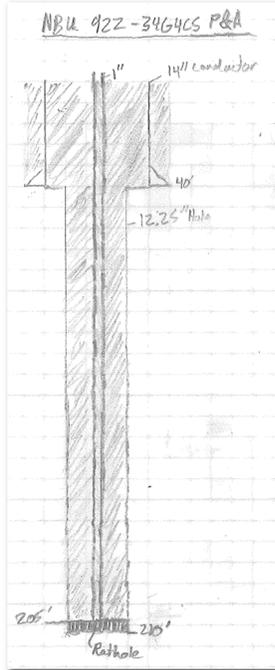
**Well Bore Diagram (Before)**



**Procedure**

- 1) Run 1" pipe to 205 feet, leaving 5 feet of rathole.
- 2) Rig up cementers and pressure cement through 1".
- 3) Pump approximately 32.4 bbls of cement (until hole is full).
- 4) Any water is to be sucked up with Vac Truck.
- 5) Leave 1" in hole full of cement
- 6) Top off hole with cement as needed.

**P&A Well Bore Diagram (After)**



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-0149077
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> NBU 922-34H1BS
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047537400000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6507  <b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1316 FNL 0766 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENE Section: 34 Township: 09.0S Range: 22.0E Meridian: S	<b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 12/30/2015	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

No activity for Quarter 4 of 2015. Well TD at 40 ft. Thank you.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 January 04, 2016

<b>NAME (PLEASE PRINT)</b> Kristina Geno	<b>PHONE NUMBER</b> 720 929-6824	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 12/30/2015	

FORM 3160-4  
(March 2012)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

FORM APPROVED  
OMB NO. 1004-0137  
Expires: October 31, 2014

5. Lease Serial No. <b>UTU0149077</b>	
6. If Indian, Allottee or Tribe Name	
7. Unit or CA Agreement Name and No. <b>UTU63047A</b>	
8. Lease Name and Well No. <b>NBU 922-34H1BS</b>	
9. API Well No. <b>43-047-53740</b>	
10. Field and Pool, or Exploratory <b>Natural Buttes</b>	
11. Sec., T., R., M., on Block and Survey or Area <b>Sec 34 T 9S R 22E Mer SLB</b>	
12. County or Parish <b>UINTAH</b>	
13. State <b>UT</b>	
17. Elevations (DF, RKB, RT, GL)* <b>4,858 RKB</b>	
14. Date Spudded <b>7/9/2015</b>	15. Date T.D. Reached <b>7/9/2015</b>
16. Date Completed <input checked="" type="checkbox"/> D&A <b>1/29/2016</b> <input type="checkbox"/> Ready to Prod.	
18. Total Depth: MD <b>40</b> TVD	19. Plug back T.D.: MD TVD
20. Depth Bridge Plug Set: MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) N/A	
22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit copy)	

23. Casing and Liner Record (Report all strings set in well)									
Hole Size	Size/ Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
24.000	14 STL	36.7	0	40		81			

24. Tubing Record								
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

25. Producing Intervals				26. Perforation Record			
Formation	Top	Bottom	Perforated Interval	Size	No. of Holes	Perf. Status	
A)							
B)							
C)							
D)							

27. Acid, Fracture, Treatment, Cement Squeeze, etc.	
Depth Interval	Amount and Type of Material

28. Production- Interval A		Production Method	Flows From Well	Well Status	Plugged and Abandoned			
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity
			→					
Choke Size	Tbg. Press Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	
			→					

28a. Production- Interval B		Production Method	Flows From Well	Well Status	Plugged and Abandoned			
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity
			→					
Choke Size	Tbg. Press Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	
			→					

\*(See instructions and spaces for additional data on page 2)

28b. Production- Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	
Choke Size	Tbg. Press Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio		

28c. Production- Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	
Choke Size	Tbg. Press Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio		

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

30. Summary of Porous Zones (include Aquifers):

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

31. Formation (Log) Markers:

Formation	Top	Bottom	Descriptions, Contents, Etc.	Name	Top
					Meas. Depth

32. Additional remarks (include plugging procedure):

The conductor hole was drilled to 40 ft on this well, and the decision was made to plug and abandon. 45 sacks of cement were pumped into the conductor pipe and the well was plugged and abandoned on 1/29/2016. Please see attached operations summary report. Thank you.

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- Electrical/Mechanical Logs (1 full set req'd)    
  Geologic Report    
  DST Report    
  Directional Survey  
 Sundry Notice for plugging and cement verification    
  Core Analysis    
  Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) Jennifer Thomas

Title Regulatory Specialist

Signature \_\_\_\_\_

Date \_\_\_\_\_

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.

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 922-34H1BS				Spud date:					
Project: UTAH-UINTAH			Site: NBU 922-34H PAD			Rig name no.: PROPETRO 12/12			
Event: DRILLING			Start date: 7/9/2015			End date: 1/29/2016			
Active datum: RKB @4,858.00usft (above Mean Sea Level)				UWI: SE/NE/0/9/S/22/E/34/0/0/26/PM/N/1331/E/0/765/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation	
7/9/2015	16:00 - 17:00	1.00	DRLCON	2	A	P	0	DRILL 24" CONDUCTOR HOLE TO 40'	
	17:00 - 18:00	1.00	DCSGCON	12	E	P	40	SET 14" CONDUCTOR CASING AND CEMENT WITH 81 SX CEMENT	
7/10/2015	-								
1/29/2016	8:30 - 9:00	0.50		51	B	P		FILL CONDUCTOR TO SURFACE WITH 45 SX CEMENT	