

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

FORM 3

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER NBU 922-34A4CS				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT NATURAL BUTTES				
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES				
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.						7. OPERATOR PHONE 720 929-6515				
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217						9. OPERATOR E-MAIL julie.jacobson@anadarko.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU-0149077			11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN		
LOCATION AT SURFACE		1321 FNL 766 FEL		NENE	34	9.0 S	22.0 E	S		
Top of Uppermost Producing Zone		1084 FNL 494 FEL		NENE	34	9.0 S	22.0 E	S		
At Total Depth		1084 FNL 494 FEL		NENE	34	9.0 S	22.0 E	S		
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 494			23. NUMBER OF ACRES IN DRILLING UNIT 600				
27. ELEVATION - GROUND LEVEL 4854			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 385			26. PROPOSED DEPTH MD: 8860 TVD: 8834				
28. BOND NUMBER WYB000291			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-8496							
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	11	8.625	0 - 2320	28.0	J-55 LT&C	0.2	Type V	180	1.15	15.8
							Class G	270	1.15	15.8
Prod	7.875	4.5	0 - 8860	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
ATTACHMENTS										
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Gina Becker			TITLE Regulatory Analyst II			PHONE 720 929-6086				
SIGNATURE			DATE 05/08/2013			EMAIL gina.becker@anadarko.com				
API NUMBER ASSIGNED 43047537370000			APPROVAL  Permit Manager							

Kerr-McGee Oil & Gas Onshore. L.P.**NBU 922-34A4CS**

Surface:	1321 FNL / 766 FEL	NENE
BHL:	1084 FNL / 494 FEL	NENE

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	1,128'	
Birds Nest	1,418'	Water
Mahogany	1,872'	Water
Wasatch	4,272'	Gas
Mesaverde	6,592'	Gas
Sego	8,834'	Gas
TVD	8,834'	
TD	8,860'	

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

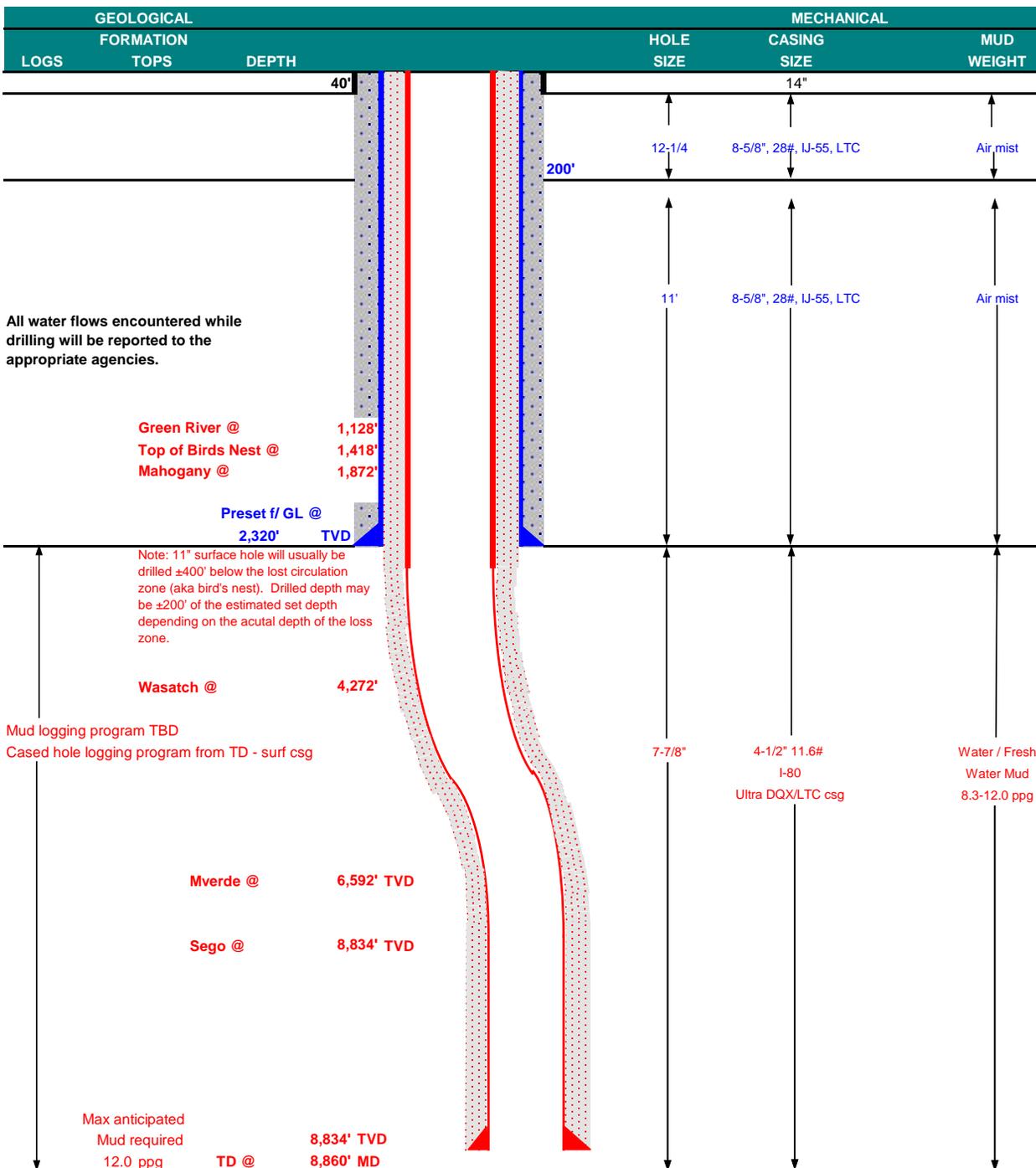
1/10/2013

RECEIVED: May 07, 2013



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	January 10, 2013	
WELL NAME	NBU 922-34A4CS		TD	8,834'	8,860' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah
SURFACE LOCATION	NENE	1321 FNL	766 FEL	Sec 34 T 9S	R 22E
	Latitude:	39.996140	Longitude:	-109.419434	NAD 83
BTM HOLE LOCATION	NENE	1084 FNL	494 FEL	Sec 34 T 9S	R 22E
	Latitude:	39.996788	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'				3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0 to 2,320	28.00	IJ-55	LTC	2.33	1.73	6.12	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
					LTC	7,780	6,350	223,000	267,035
	4-1/2"	5,000 to 8,860'	11.60	I-80	LTC	1.11	1.15	6.10	

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
NOTE: If well will circulate water to surface, option 2 will be utilized								
SURFACE Option 2	LEAD	1,820'	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	3,770'	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	5,090'	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

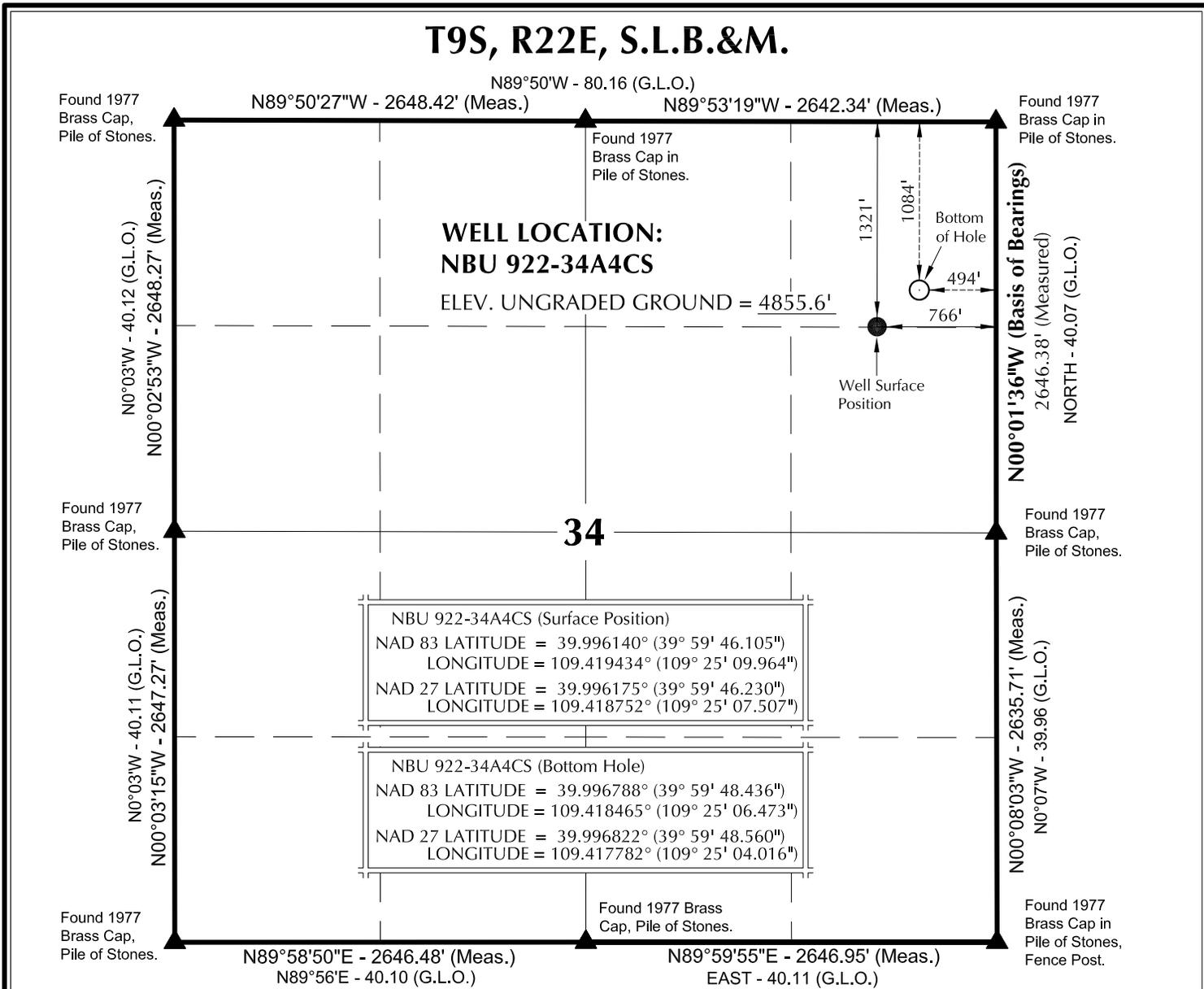
SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well. 1 centralizer on the first 3 joints and one every third joint thereafter.

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.

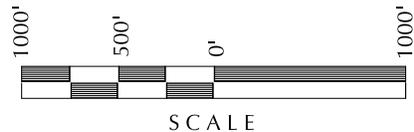
DRILLING ENGINEER: _____ **DATE:** _____
 Nick Spence / John Tuckwiller / Brian Cocchiere / Tyler Elliott
DRILLING SUPERINTENDENT: _____ **DATE:** _____
 Kenny Gathings / Lovel Young

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 N49°00'55"E 359.86' 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.

PROF. SEAL
No. 60766
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 922-34A4CS
WELL PLAT
1084' FNL, 494' FEL (Bottom Hole)
NE ¼ NE ¼ OF 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

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

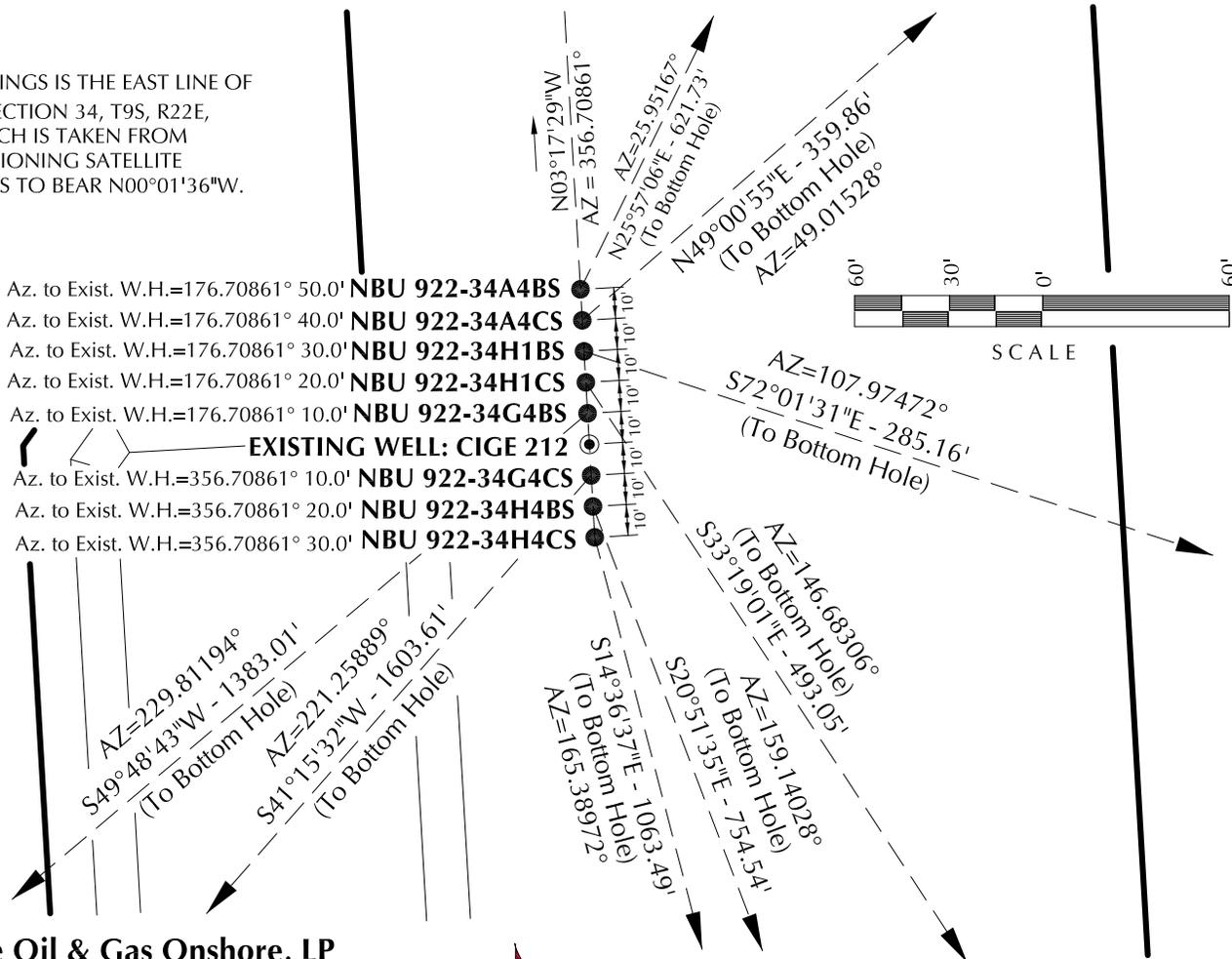
DATE SURVEYED: 5-14-12	SURVEYED BY: A.F.	SHEET NO: 7
DATE DRAWN: 6-15-12	DRAWN BY: J.G.C.	
SCALE: 1" = 1000'	Date Last Revised: 7-9-12 M.W.W.	7 OF 20

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
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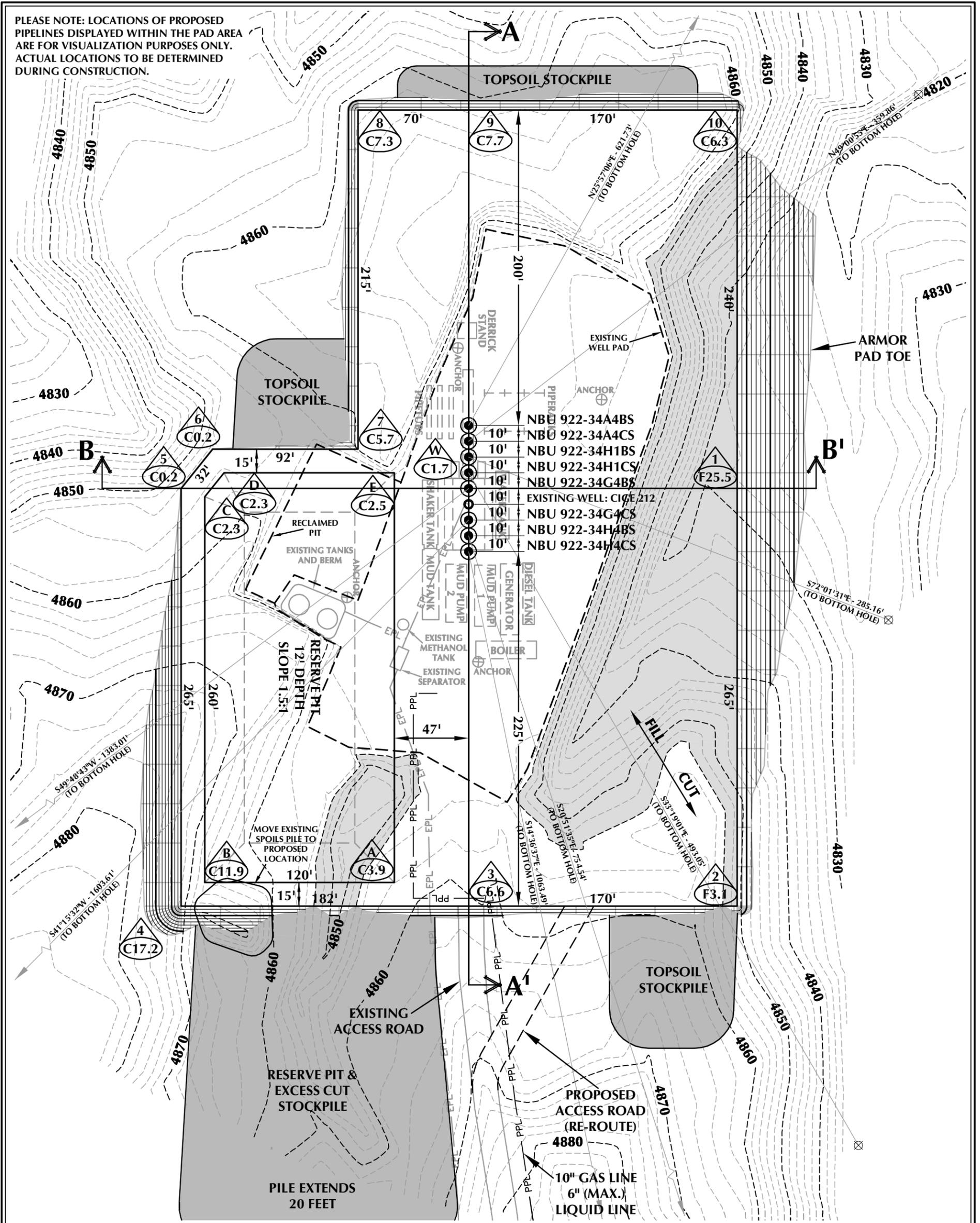


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 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 5-14-12	SURVEYED BY: A.F.	SHEET NO: 9
DATE DRAWN: 6-15-12	DRAWN BY: J.G.C.	
SCALE: 1" = 60'		9 OF 20

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
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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



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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

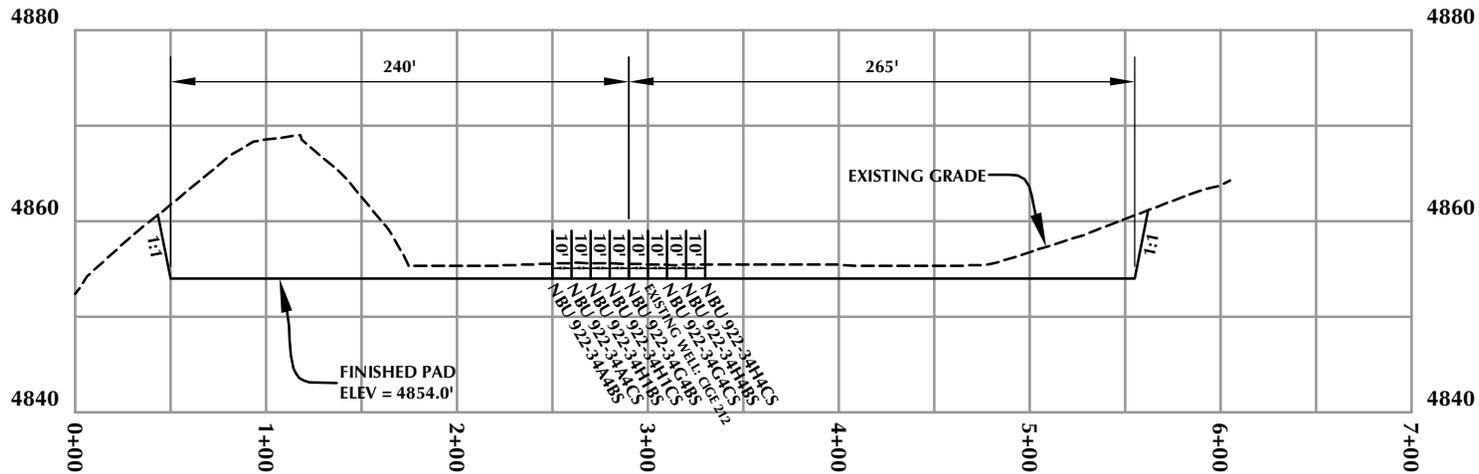


HORIZONTAL 0 30' 60' 1" = 60'

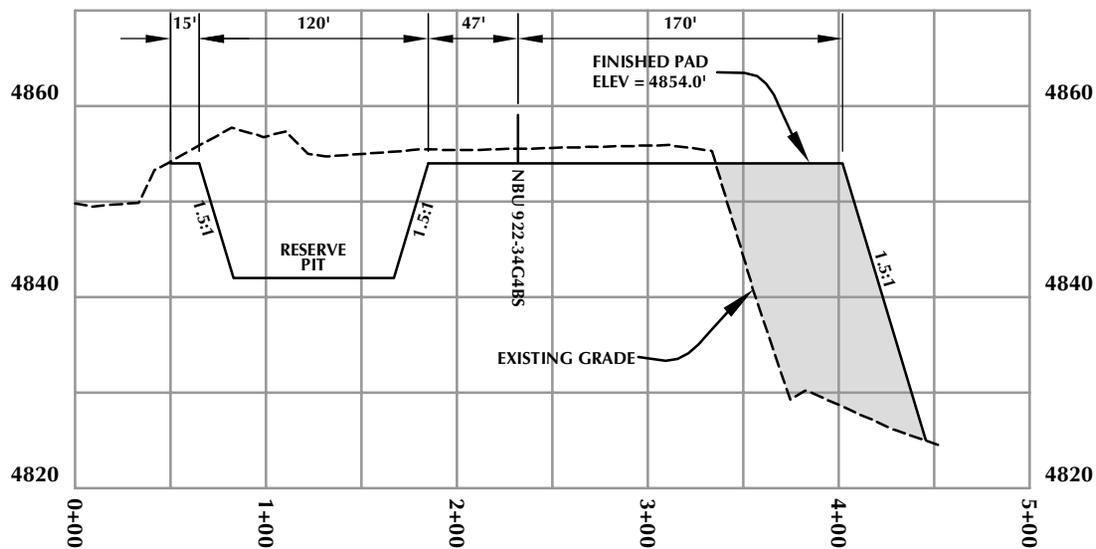
2' CONTOURS

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

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 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.

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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



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Scale: 1"=100'

Date: 7/10/12

SHEET NO:

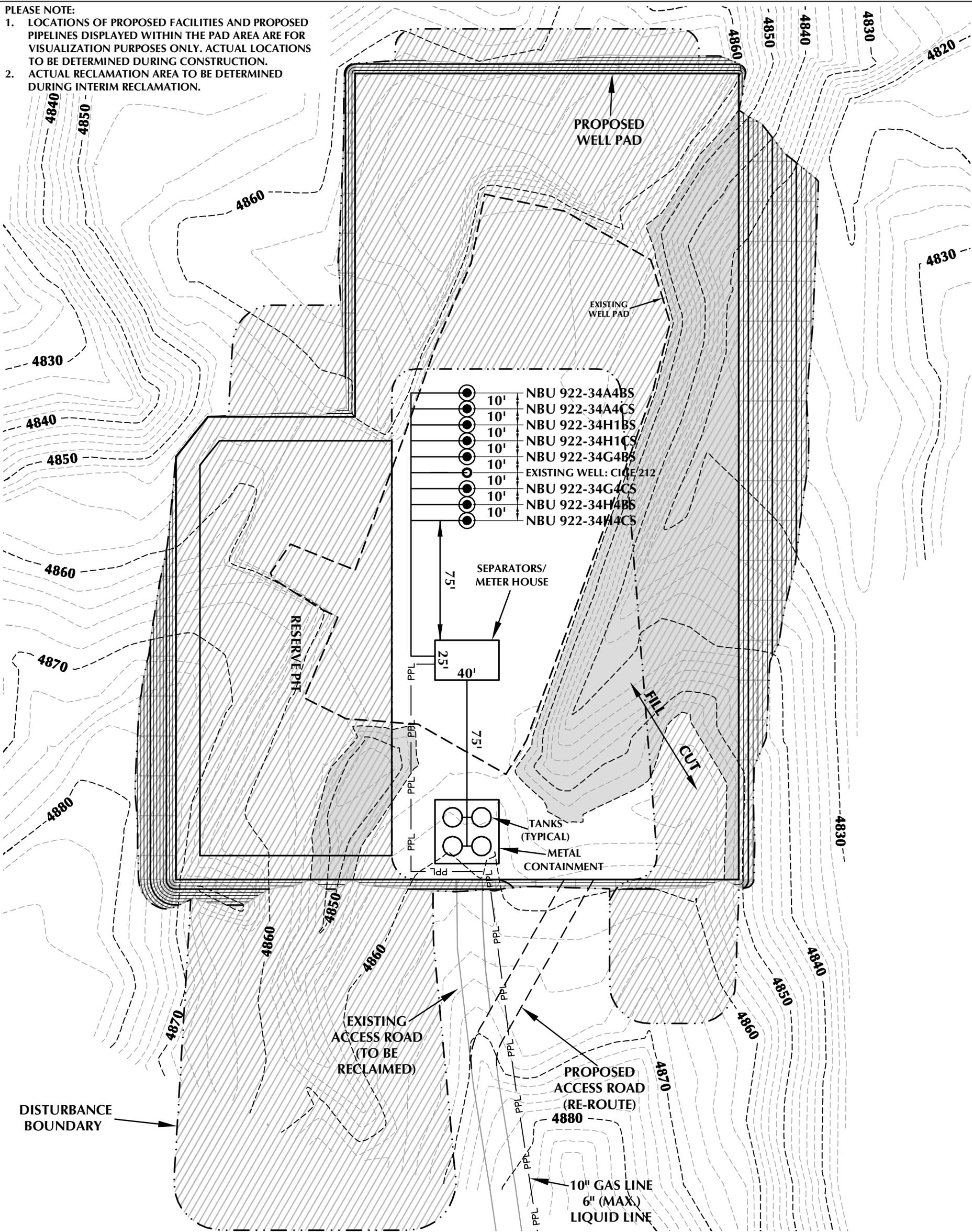
REVISED:

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
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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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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

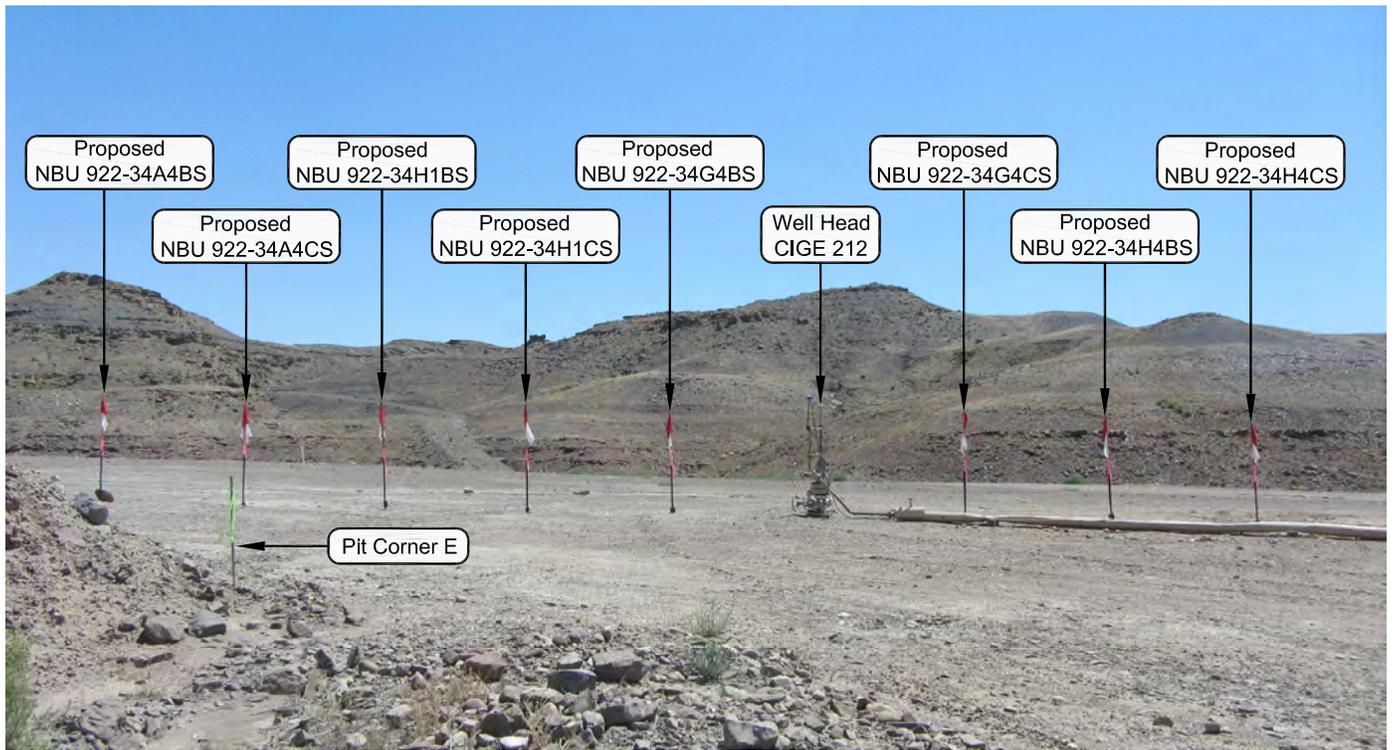


PHOTO VIEW: FROM PIT CORNER E TO LOCATION STAKE

CAMERA ANGLE: EASTERLY



PHOTO VIEW: FROM EXISTING ACCESS ROAD

CAMERA ANGLE: NORTHERLY

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WELL PAD - NBU 922-34H

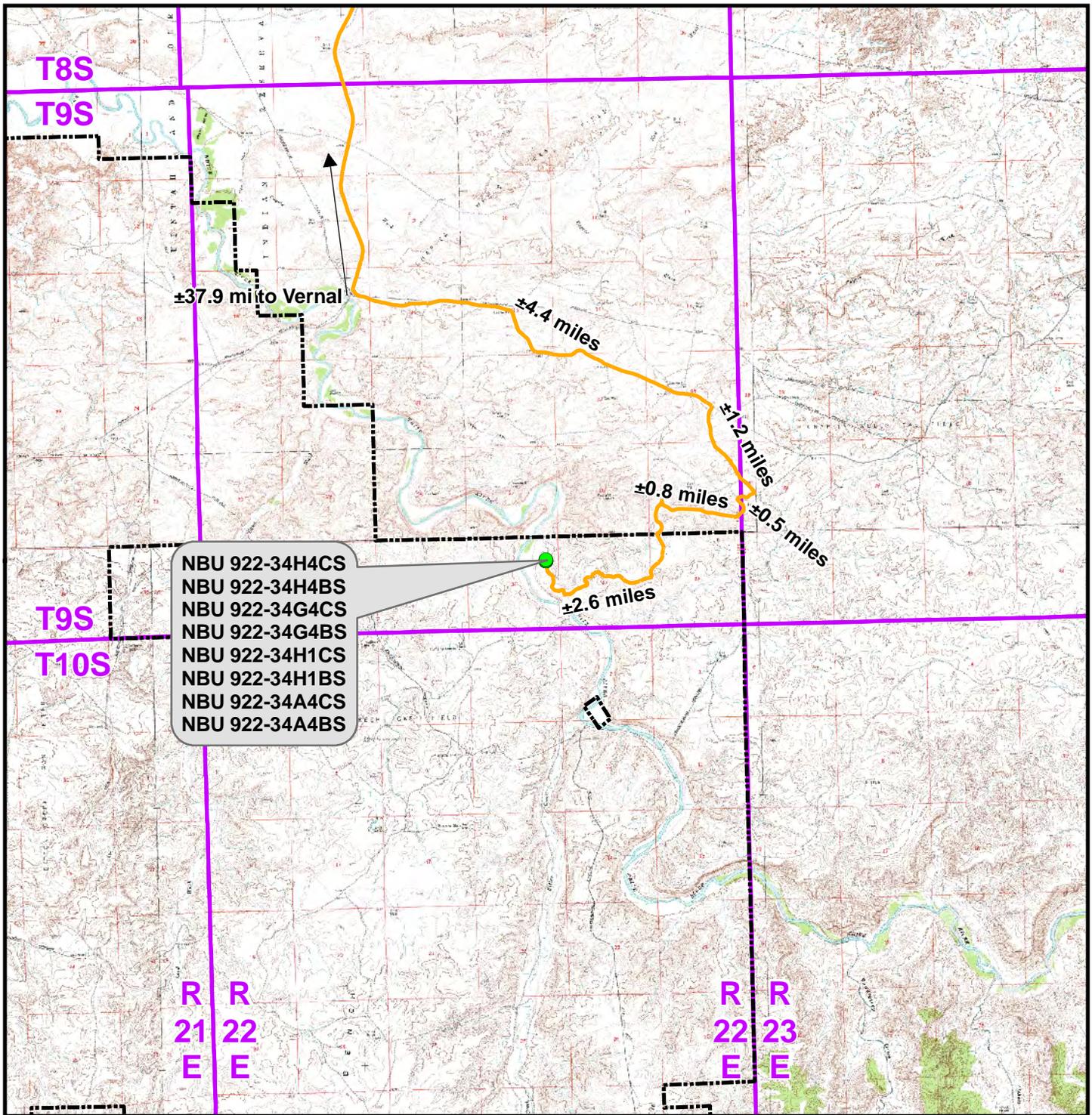
LOCATION PHOTOS
 NBU 922-34H4CS, NBU 922-34H4BS,
 NBU 922-34G4CS, NBU 922-34G4BS,
 NBU 922-34H1CS, NBU 922-34H1BS,
 NBU 922-34A4CS & NBU 922-34A4BS
 LOCATED IN SECTION 34, T9S, R22E,
 S.L.B.&M., UINTAH COUNTY, UTAH.



CONSULTING, LLC
 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 PHOTOS TAKEN: 5-14-12	PHOTOS TAKEN BY: A.F.	SHEET NO: 13
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.**

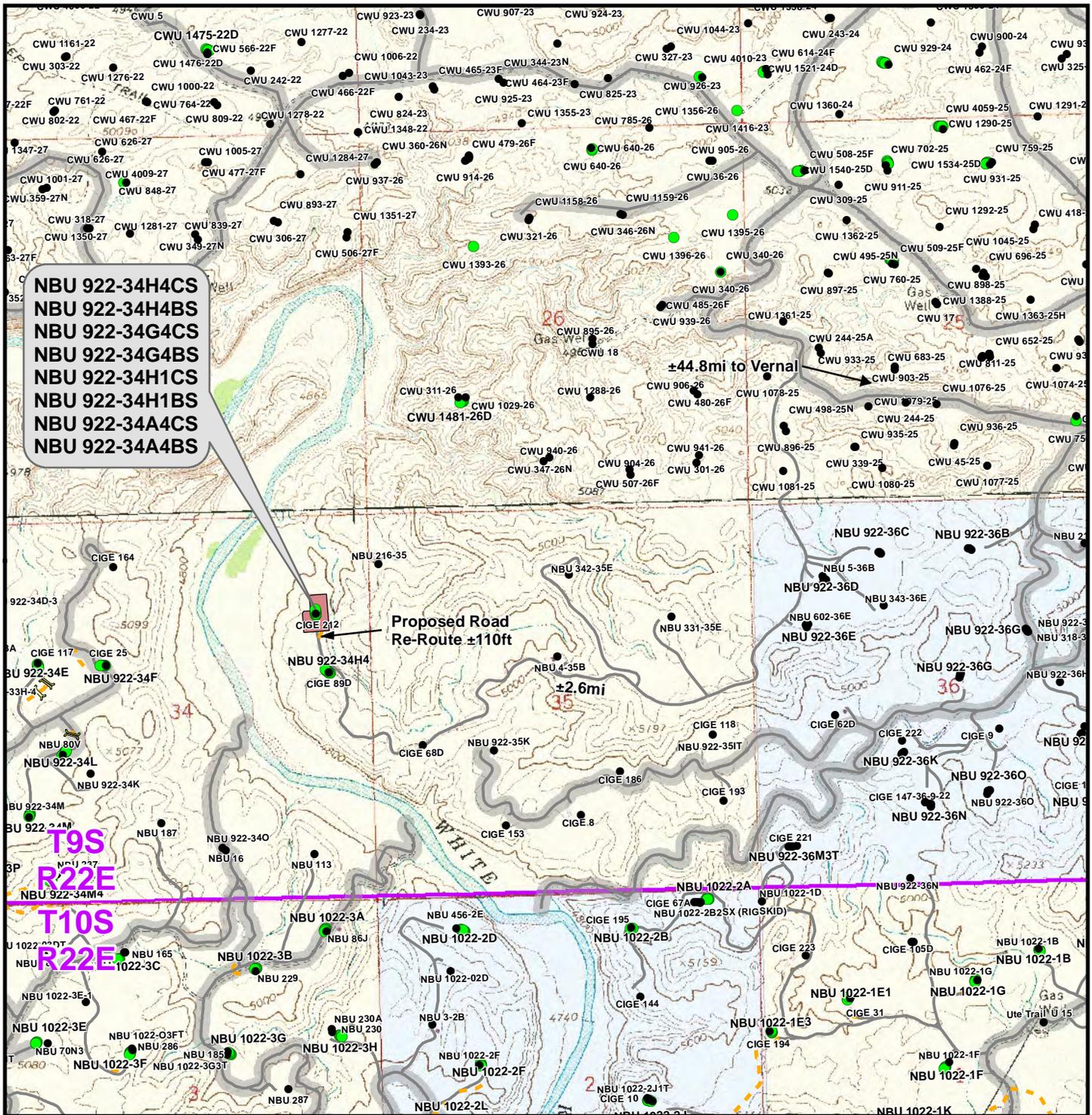
1099 18th Street
 Denver, Colorado 80202



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	14
REVISED:	DATE:	



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Legend

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

Total Proposed Road 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

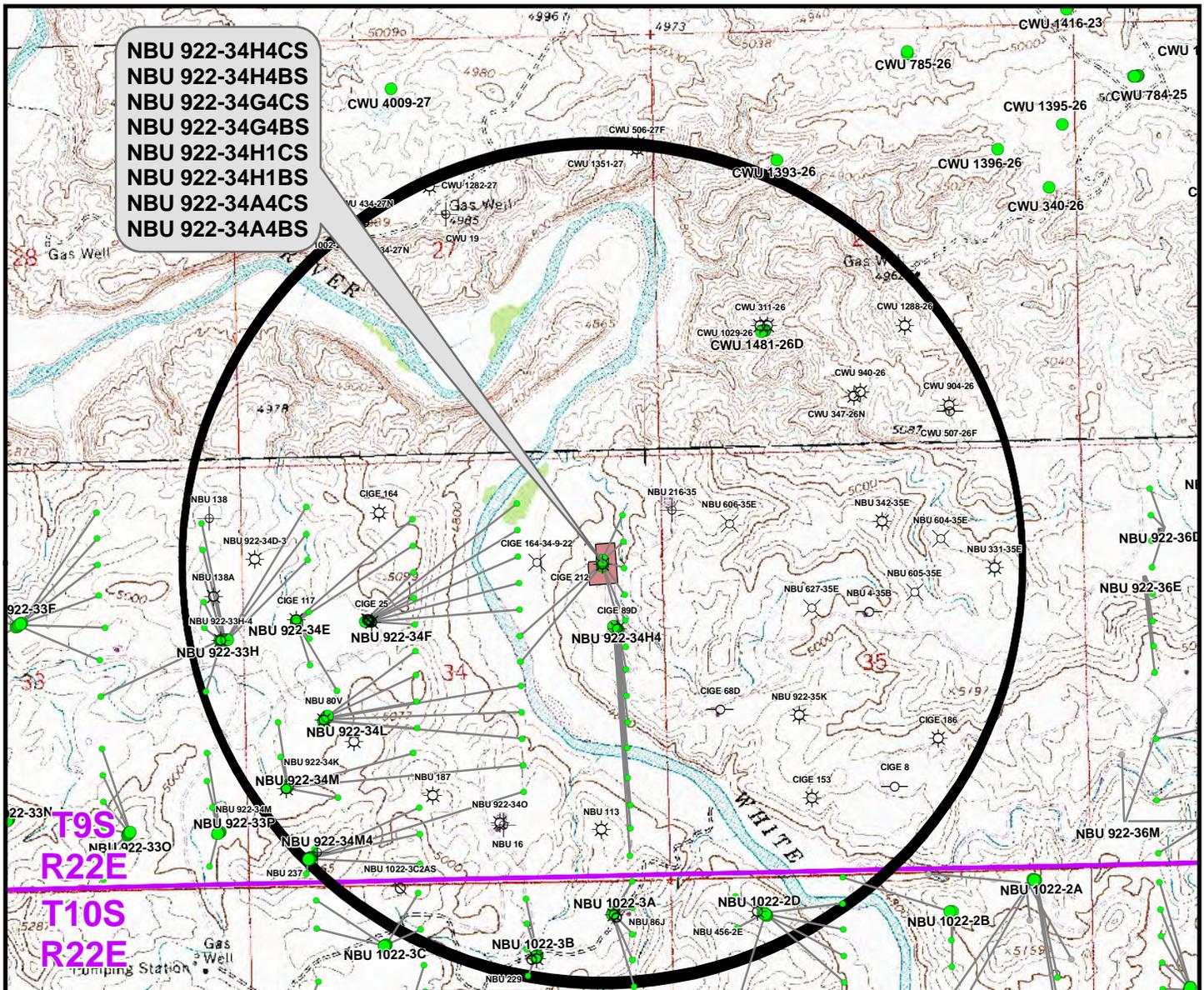
**Kerr-McGee Oil &
 Gas Onshore L.P.**
 1099 18th Street
 Denver, Colorado 80202



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\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



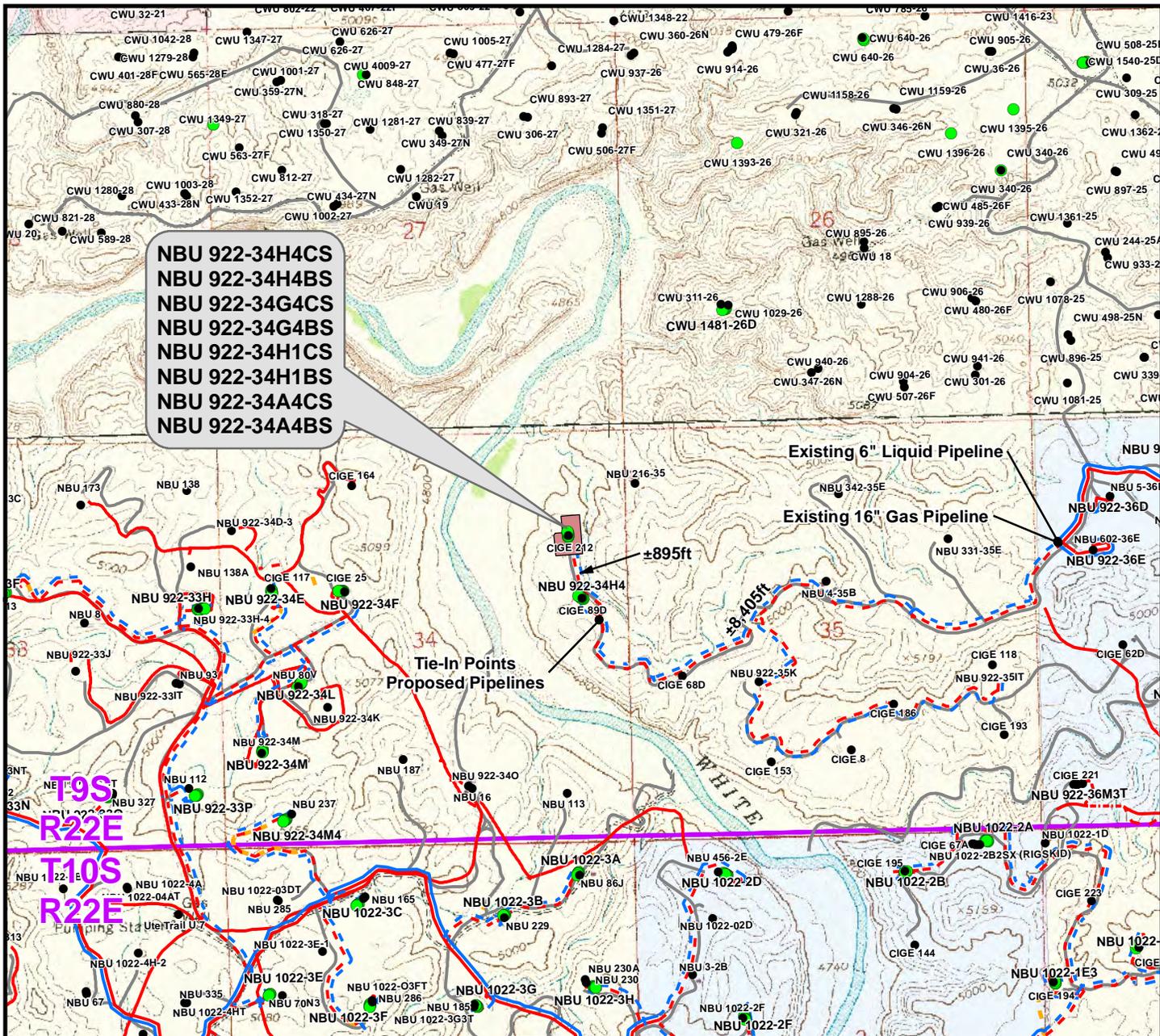
CONSULTING, LLC

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



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

SHEET NO:
16
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
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±1,095ft

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

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

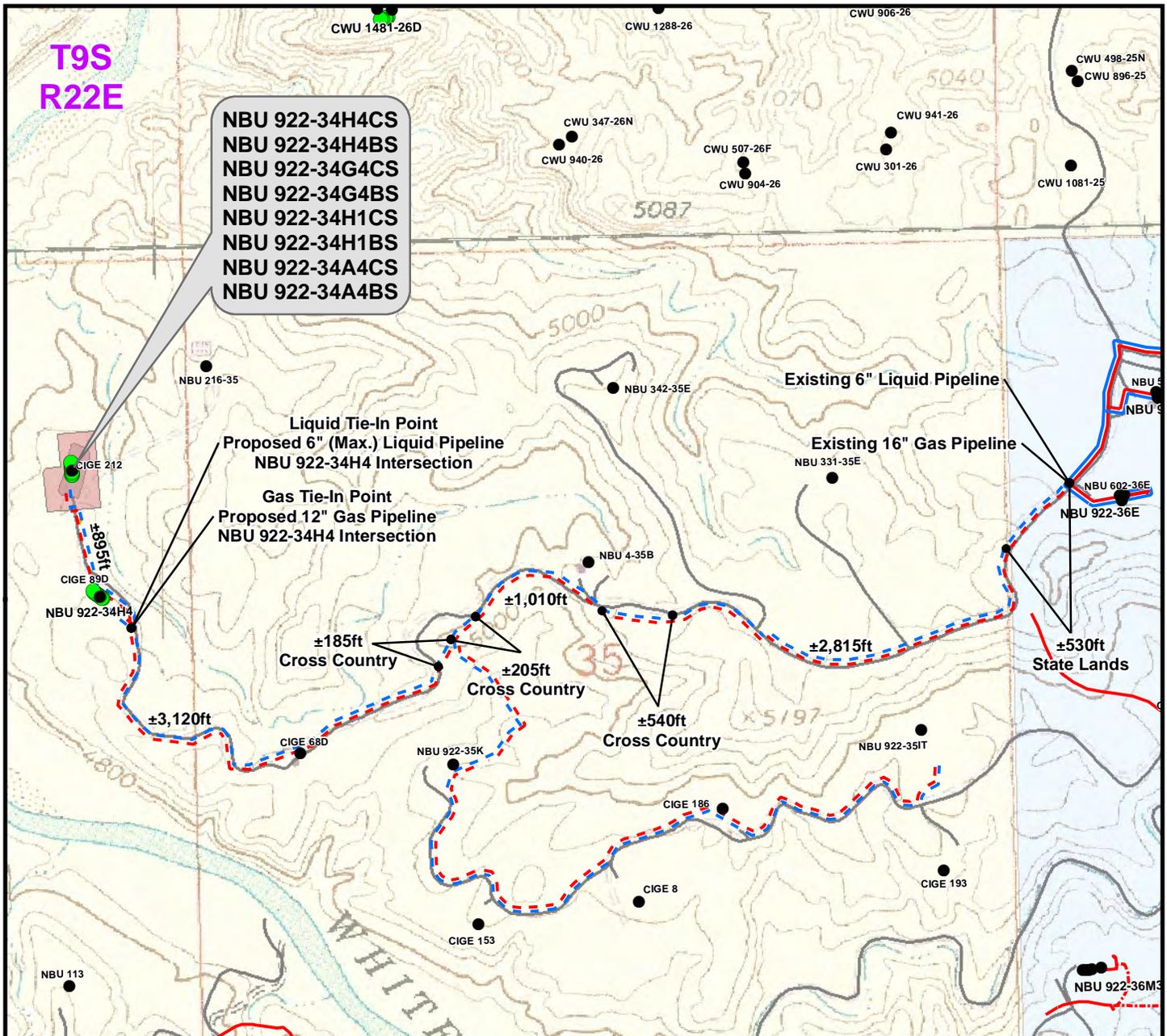
Kerr-McGee Oil & Gas Onshore L.P.
 1099 18th Street
 Denver, Colorado 80202



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

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

File: K:\ANADARKO\2012\12_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
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±1,095ft

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

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.

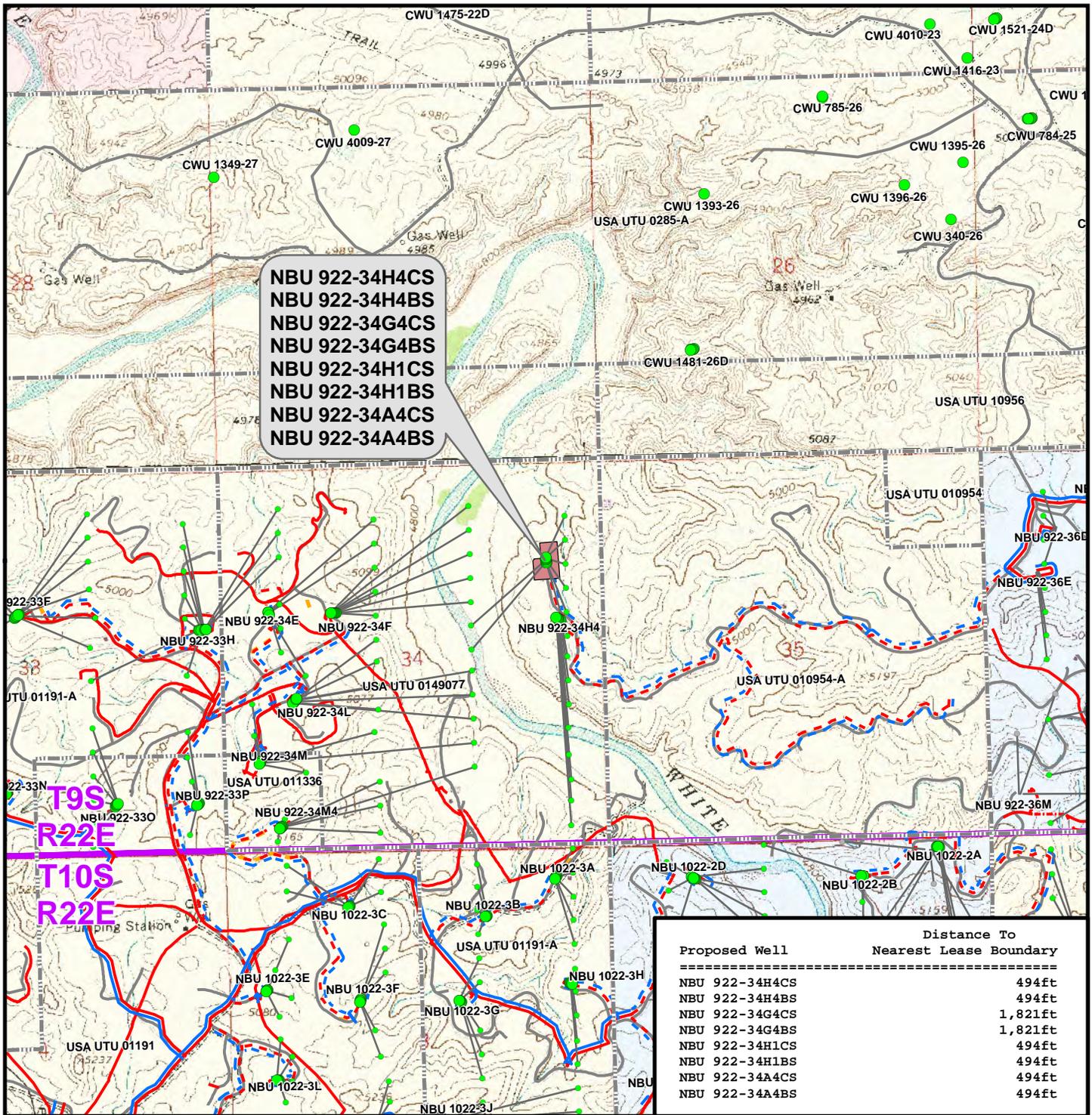
1099 18th Street
 Denver, Colorado 80202

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

N

SCALE: 1" = 1,000ft	NAD83 USP Central	18 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_922-34\NBU_922-34H_D2.mxd, 9/21/2012 9:51:04 AM



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

Legend

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

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

N

SCALE: 1" = 2,000ft	NAD83 USP Central	19
DRAWN: TL	DATE: 18 Sept 2012	
REVISED:	DATE:	

SHEET NO:
19 OF 20

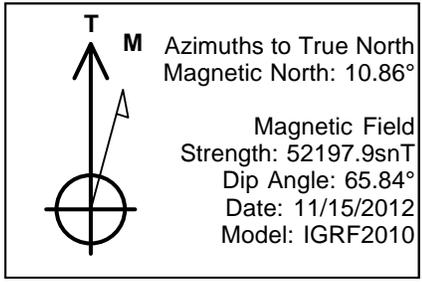
File: K:\ANADARKO\2012\12_36_NBU_FOCUS_922-34H\NBU 922-34H-E.mxd, 9/21/2012 4:30:50 PM

**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.**

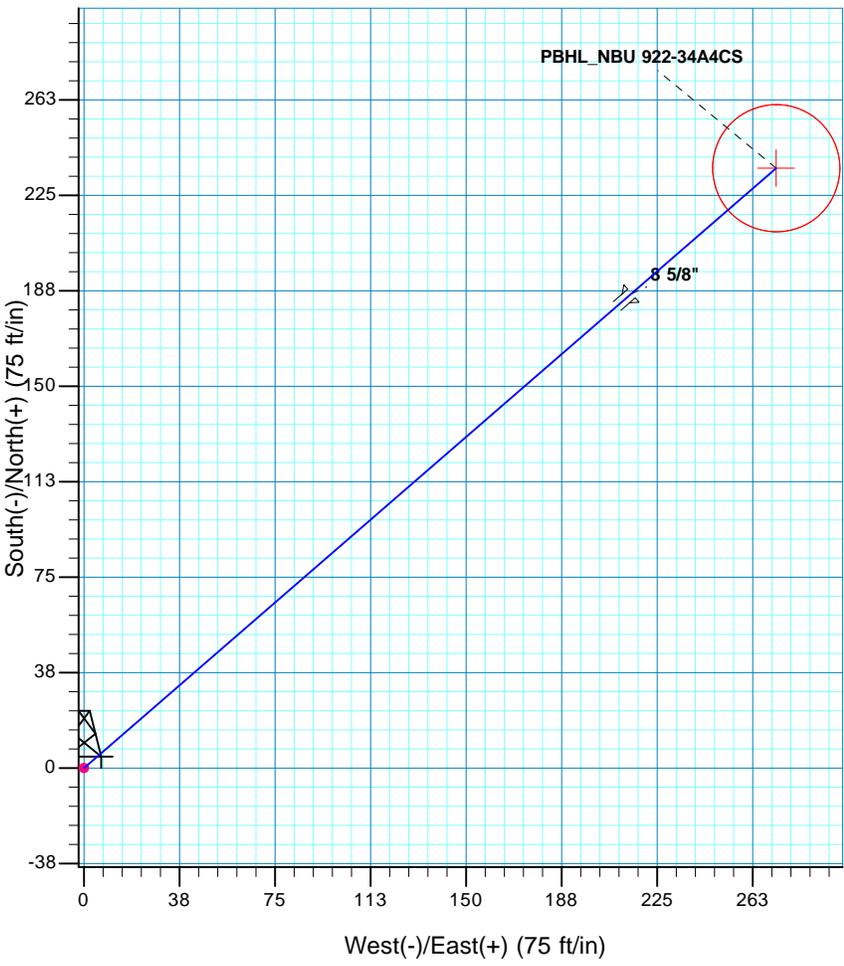
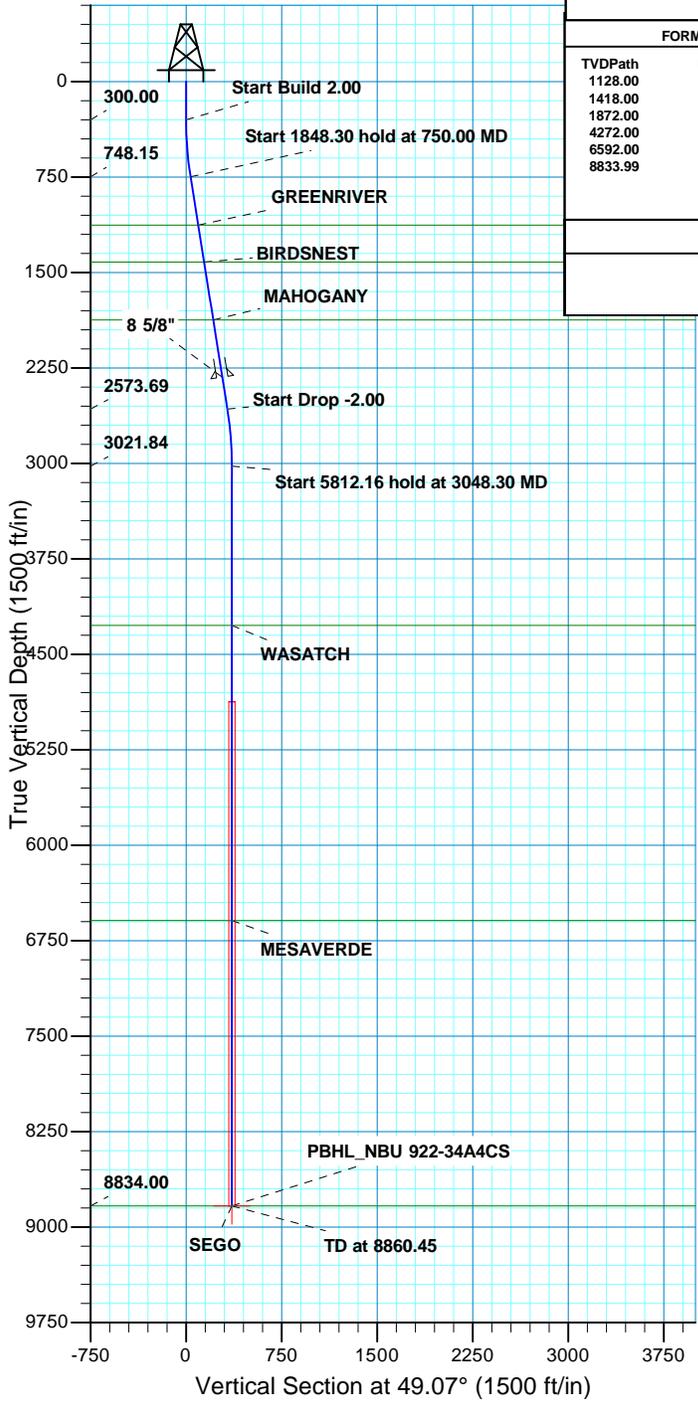
From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles 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 Fidlar 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 Fidlar 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 922-34A4CS								
GL 4854 & KB 4 @ 4858.00ft (ASSUMED)								
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude			
0.00	0.00	14528580.03	2083292.90	39.996175	-109.418752			
DESIGN TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	8834.00	235.65	271.73	14528820.46	2083560.41	39.996822	-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	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
750.00	9.00	49.07	748.15	23.11	26.65	2.00	49.07	35.27	0.00	
2598.30	9.00	49.07	2573.69	212.54	245.08	0.00	0.00	324.41	0.00	
3048.30	0.00	0.00	3021.84	235.65	271.73	2.00	180.00	359.68	0.00	
8860.45	0.00	0.00	8834.00	235.65	271.73	0.00	0.00	359.68	PBHL_NBU 922-34A4CS	
FORMATION TOP DETAILS										
TVDPath	MDPath	Formation								
1128.00	1134.58	GREENRIVER								
1418.00	1428.20	BIRDSNEST								
1872.00	1887.86	MAHOAGANY								
4272.00	4298.45	WASATCH								
6592.00	6618.45	MESAVERDE								
8833.99	8860.44	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							
2322.00	2343.47	8 5/8"	8.625							



RECEIVED



Scientific Drilling

US ROCKIES REGION PLANNING

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

NBU 922-34H PAD

NBU 922-34A4CS

OH

Plan: PLAN #1 PRELIMINARY

Standard Planning Report

15 November, 2012





Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-34A4CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4854 & KB 4 @ 4858.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4854 & KB 4 @ 4858.00ft (ASSUMED)
Site:	NBU 922-34H PAD	North Reference:	True
Well:	NBU 922-34A4CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

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

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

Well	NBU 922-34A4CS, 1321 FNL 766 FEL					
Well Position	+N/-S	-9.83 ft	Northing:	14,528,580.03 usft	Latitude:	39.996175
	+E/-W	0.56 ft	Easting:	2,083,292.90 usft	Longitude:	-109.418752
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,854.00 ft

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

Design	PLAN #1 PRELIMINARY				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	49.07	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
750.00	9.00	49.07	748.15	23.11	26.65	2.00	2.00	0.00	49.07	
2,598.30	9.00	49.07	2,573.69	212.54	245.08	0.00	0.00	0.00	0.00	
3,048.30	0.00	0.00	3,021.84	235.65	271.73	2.00	-2.00	0.00	180.00	
8,860.45	0.00	0.00	8,834.00	235.65	271.73	0.00	0.00	0.00	0.00	PBHL_NBU 922-34A4



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-34A4CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4854 & KB 4 @ 4858.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4854 & KB 4 @ 4858.00ft (ASSUMED)
Site:	NBU 922-34H PAD	North Reference:	True
Well:	NBU 922-34A4CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
Start Build 2.00										
400.00	2.00	49.07	399.98	1.14	1.32	1.75	2.00	2.00	0.00	
500.00	4.00	49.07	499.84	4.57	5.27	6.98	2.00	2.00	0.00	
600.00	6.00	49.07	599.45	10.28	11.86	15.69	2.00	2.00	0.00	
700.00	8.00	49.07	698.70	18.27	21.06	27.88	2.00	2.00	0.00	
750.00	9.00	49.07	748.15	23.11	26.65	35.27	2.00	2.00	0.00	
Start 1848.30 hold at 750.00 MD										
800.00	9.00	49.07	797.54	28.23	32.56	43.09	0.00	0.00	0.00	
900.00	9.00	49.07	896.31	38.48	44.37	58.74	0.00	0.00	0.00	
1,000.00	9.00	49.07	995.07	48.73	56.19	74.38	0.00	0.00	0.00	
1,100.00	9.00	49.07	1,093.84	58.98	68.01	90.02	0.00	0.00	0.00	
1,134.58	9.00	49.07	1,128.00	62.52	72.10	95.43	0.00	0.00	0.00	
GREENRIVER										
1,200.00	9.00	49.07	1,192.61	69.23	79.83	105.67	0.00	0.00	0.00	
1,300.00	9.00	49.07	1,291.38	79.48	91.65	121.31	0.00	0.00	0.00	
1,400.00	9.00	49.07	1,390.15	89.73	103.47	136.95	0.00	0.00	0.00	
1,428.20	9.00	49.07	1,418.00	92.62	106.80	141.36	0.00	0.00	0.00	
BIRDSNEST										
1,500.00	9.00	49.07	1,488.92	99.98	115.28	152.60	0.00	0.00	0.00	
1,600.00	9.00	49.07	1,587.69	110.23	127.10	168.24	0.00	0.00	0.00	
1,700.00	9.00	49.07	1,686.46	120.47	138.92	183.88	0.00	0.00	0.00	
1,800.00	9.00	49.07	1,785.22	130.72	150.74	199.53	0.00	0.00	0.00	
1,887.86	9.00	49.07	1,872.00	139.73	161.12	213.27	0.00	0.00	0.00	
MAHOGANY										
1,900.00	9.00	49.07	1,883.99	140.97	162.56	215.17	0.00	0.00	0.00	
2,000.00	9.00	49.07	1,982.76	151.22	174.38	230.81	0.00	0.00	0.00	
2,100.00	9.00	49.07	2,081.53	161.47	186.19	246.46	0.00	0.00	0.00	
2,200.00	9.00	49.07	2,180.30	171.72	198.01	262.10	0.00	0.00	0.00	
2,300.00	9.00	49.07	2,279.07	181.97	209.83	277.74	0.00	0.00	0.00	
2,343.47	9.00	49.07	2,322.00	186.42	214.97	284.54	0.00	0.00	0.00	
8 5/8"										
2,400.00	9.00	49.07	2,377.84	192.22	221.65	293.39	0.00	0.00	0.00	
2,500.00	9.00	49.07	2,476.61	202.47	233.47	309.03	0.00	0.00	0.00	
2,598.30	9.00	49.07	2,573.69	212.54	245.08	324.41	0.00	0.00	0.00	
Start Drop -2.00										
2,600.00	8.97	49.07	2,575.38	212.72	245.29	324.67	2.00	-2.00	0.00	
2,700.00	6.97	49.07	2,674.41	221.79	255.75	338.53	2.00	-2.00	0.00	
2,800.00	4.97	49.07	2,773.86	228.60	263.61	348.92	2.00	-2.00	0.00	
2,900.00	2.97	49.07	2,873.61	233.13	268.83	355.84	2.00	-2.00	0.00	
3,000.00	0.97	49.07	2,973.55	235.38	271.42	359.27	2.00	-2.00	0.00	
3,048.30	0.00	0.00	3,021.84	235.65	271.73	359.68	2.00	-2.00	0.00	
Start 5812.16 hold at 3048.30 MD										
3,100.00	0.00	0.00	3,073.55	235.65	271.73	359.68	0.00	0.00	0.00	
3,200.00	0.00	0.00	3,173.55	235.65	271.73	359.68	0.00	0.00	0.00	
3,300.00	0.00	0.00	3,273.55	235.65	271.73	359.68	0.00	0.00	0.00	
3,400.00	0.00	0.00	3,373.55	235.65	271.73	359.68	0.00	0.00	0.00	
3,500.00	0.00	0.00	3,473.55	235.65	271.73	359.68	0.00	0.00	0.00	
3,600.00	0.00	0.00	3,573.55	235.65	271.73	359.68	0.00	0.00	0.00	
3,700.00	0.00	0.00	3,673.55	235.65	271.73	359.68	0.00	0.00	0.00	



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-34A4CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4854 & KB 4 @ 4858.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4854 & KB 4 @ 4858.00ft (ASSUMED)
Site:	NBU 922-34H PAD	North Reference:	True
Well:	NBU 922-34A4CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,800.00	0.00	0.00	3,773.55	235.65	271.73	359.68	0.00	0.00	0.00
3,900.00	0.00	0.00	3,873.55	235.65	271.73	359.68	0.00	0.00	0.00
4,000.00	0.00	0.00	3,973.55	235.65	271.73	359.68	0.00	0.00	0.00
4,100.00	0.00	0.00	4,073.55	235.65	271.73	359.68	0.00	0.00	0.00
4,200.00	0.00	0.00	4,173.55	235.65	271.73	359.68	0.00	0.00	0.00
4,298.45	0.00	0.00	4,272.00	235.65	271.73	359.68	0.00	0.00	0.00
WASATCH									
4,300.00	0.00	0.00	4,273.55	235.65	271.73	359.68	0.00	0.00	0.00
4,400.00	0.00	0.00	4,373.55	235.65	271.73	359.68	0.00	0.00	0.00
4,500.00	0.00	0.00	4,473.55	235.65	271.73	359.68	0.00	0.00	0.00
4,600.00	0.00	0.00	4,573.55	235.65	271.73	359.68	0.00	0.00	0.00
4,700.00	0.00	0.00	4,673.55	235.65	271.73	359.68	0.00	0.00	0.00
4,800.00	0.00	0.00	4,773.55	235.65	271.73	359.68	0.00	0.00	0.00
4,900.00	0.00	0.00	4,873.55	235.65	271.73	359.68	0.00	0.00	0.00
5,000.00	0.00	0.00	4,973.55	235.65	271.73	359.68	0.00	0.00	0.00
5,100.00	0.00	0.00	5,073.55	235.65	271.73	359.68	0.00	0.00	0.00
5,200.00	0.00	0.00	5,173.55	235.65	271.73	359.68	0.00	0.00	0.00
5,300.00	0.00	0.00	5,273.55	235.65	271.73	359.68	0.00	0.00	0.00
5,400.00	0.00	0.00	5,373.55	235.65	271.73	359.68	0.00	0.00	0.00
5,500.00	0.00	0.00	5,473.55	235.65	271.73	359.68	0.00	0.00	0.00
5,600.00	0.00	0.00	5,573.55	235.65	271.73	359.68	0.00	0.00	0.00
5,700.00	0.00	0.00	5,673.55	235.65	271.73	359.68	0.00	0.00	0.00
5,800.00	0.00	0.00	5,773.55	235.65	271.73	359.68	0.00	0.00	0.00
5,900.00	0.00	0.00	5,873.55	235.65	271.73	359.68	0.00	0.00	0.00
6,000.00	0.00	0.00	5,973.55	235.65	271.73	359.68	0.00	0.00	0.00
6,100.00	0.00	0.00	6,073.55	235.65	271.73	359.68	0.00	0.00	0.00
6,200.00	0.00	0.00	6,173.55	235.65	271.73	359.68	0.00	0.00	0.00
6,300.00	0.00	0.00	6,273.55	235.65	271.73	359.68	0.00	0.00	0.00
6,400.00	0.00	0.00	6,373.55	235.65	271.73	359.68	0.00	0.00	0.00
6,500.00	0.00	0.00	6,473.55	235.65	271.73	359.68	0.00	0.00	0.00
6,600.00	0.00	0.00	6,573.55	235.65	271.73	359.68	0.00	0.00	0.00
6,618.45	0.00	0.00	6,592.00	235.65	271.73	359.68	0.00	0.00	0.00
MESAVERDE									
6,700.00	0.00	0.00	6,673.55	235.65	271.73	359.68	0.00	0.00	0.00
6,800.00	0.00	0.00	6,773.55	235.65	271.73	359.68	0.00	0.00	0.00
6,900.00	0.00	0.00	6,873.55	235.65	271.73	359.68	0.00	0.00	0.00
7,000.00	0.00	0.00	6,973.55	235.65	271.73	359.68	0.00	0.00	0.00
7,100.00	0.00	0.00	7,073.55	235.65	271.73	359.68	0.00	0.00	0.00
7,200.00	0.00	0.00	7,173.55	235.65	271.73	359.68	0.00	0.00	0.00
7,300.00	0.00	0.00	7,273.55	235.65	271.73	359.68	0.00	0.00	0.00
7,400.00	0.00	0.00	7,373.55	235.65	271.73	359.68	0.00	0.00	0.00
7,500.00	0.00	0.00	7,473.55	235.65	271.73	359.68	0.00	0.00	0.00
7,600.00	0.00	0.00	7,573.55	235.65	271.73	359.68	0.00	0.00	0.00
7,700.00	0.00	0.00	7,673.55	235.65	271.73	359.68	0.00	0.00	0.00
7,800.00	0.00	0.00	7,773.55	235.65	271.73	359.68	0.00	0.00	0.00
7,900.00	0.00	0.00	7,873.55	235.65	271.73	359.68	0.00	0.00	0.00
8,000.00	0.00	0.00	7,973.55	235.65	271.73	359.68	0.00	0.00	0.00
8,100.00	0.00	0.00	8,073.55	235.65	271.73	359.68	0.00	0.00	0.00
8,200.00	0.00	0.00	8,173.55	235.65	271.73	359.68	0.00	0.00	0.00
8,300.00	0.00	0.00	8,273.55	235.65	271.73	359.68	0.00	0.00	0.00
8,400.00	0.00	0.00	8,373.55	235.65	271.73	359.68	0.00	0.00	0.00
8,500.00	0.00	0.00	8,473.55	235.65	271.73	359.68	0.00	0.00	0.00
8,600.00	0.00	0.00	8,573.55	235.65	271.73	359.68	0.00	0.00	0.00
8,700.00	0.00	0.00	8,673.55	235.65	271.73	359.68	0.00	0.00	0.00



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-34A4CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4854 & KB 4 @ 4858.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4854 & KB 4 @ 4858.00ft (ASSUMED)
Site:	NBU 922-34H PAD	North Reference:	True
Well:	NBU 922-34A4CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,800.00	0.00	0.00	8,773.55	235.65	271.73	359.68	0.00	0.00	0.00
8,860.44	0.00	0.00	8,833.99	235.65	271.73	359.68	0.00	0.00	0.00
SEGO									
8,860.45	0.00	0.00	8,834.00	235.65	271.73	359.68	0.00	0.00	0.00
TD at 8860.45 - PBHL_NBU 922-34A4CS									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_NBU 922-34A4C: - plan hits target center - Circle (radius 25.00)	0.00	0.00	8,834.00	235.65	271.73	14,528,820.47	2,083,560.41	39.996822	-109.417782

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,343.47	2,322.00	8 5/8"	8.625	11.000	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,134.58	1,128.00	GREENRIVER				
1,428.20	1,418.00	BIRDSNEST				
1,887.86	1,872.00	MAHOGANY				
4,298.45	4,272.00	WASATCH				
6,618.45	6,592.00	MESAVERDE				
8,860.44	8,833.99	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	
750.00	748.15	23.11	26.65	Start 1848.30 hold at 750.00 MD	
2,598.30	2,573.69	212.54	245.08	Start Drop -2.00	
3,048.30	3,021.84	235.65	271.73	Start 5812.16 hold at 3048.30 MD	
8,860.45	8,834.00	235.65	271.73	TD at 8860.45	

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
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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
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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 exiting 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
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- ±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
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±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
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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.

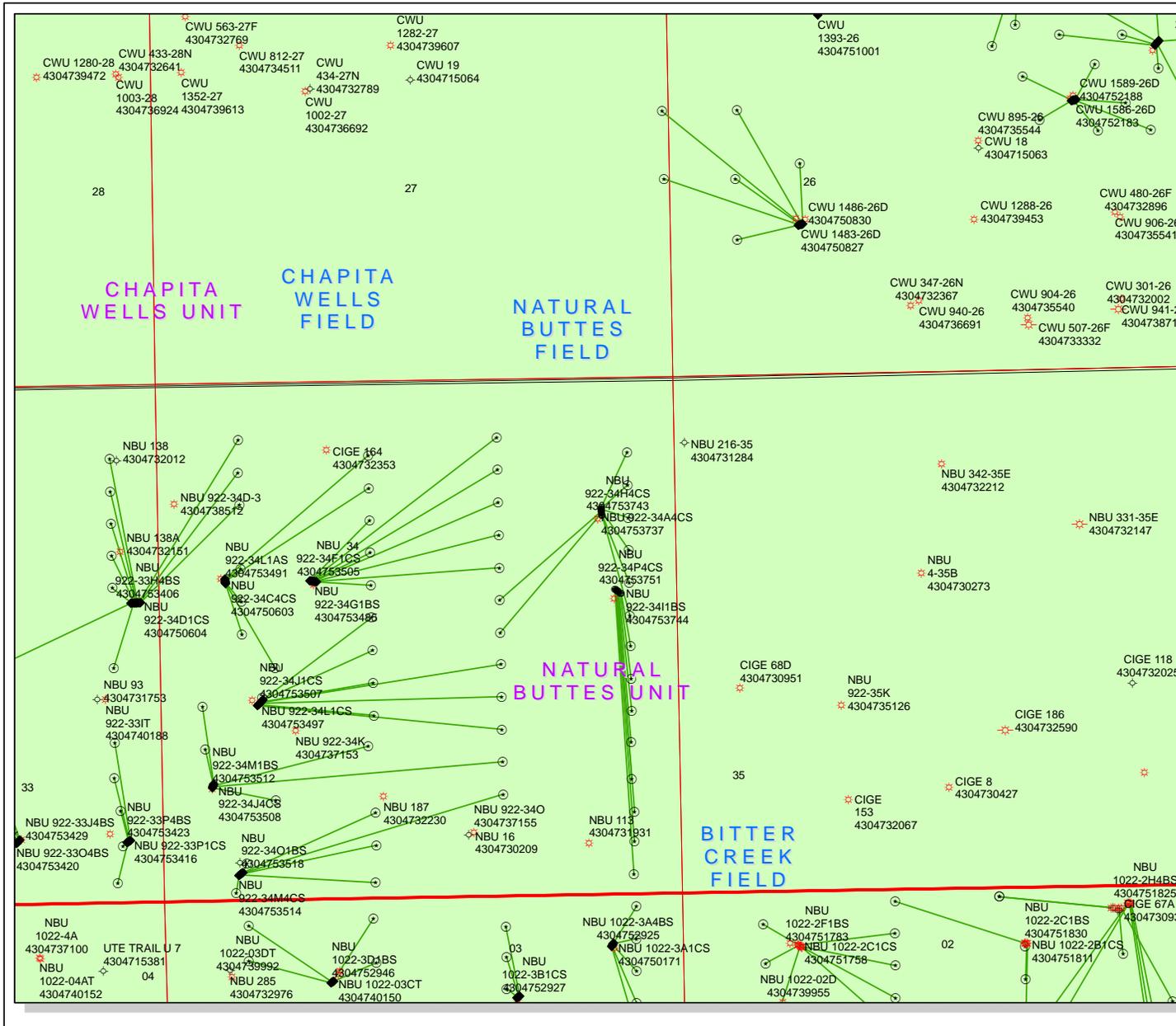
Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

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

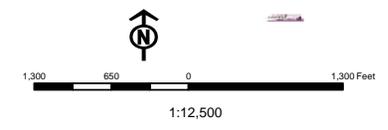
January 23, 2013
Date



API Number: 4304753737
Well Name: NBU 922-34A4CS
Township T09.0S Range R22.0E Section 34
Meridian: SLBM
 Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
 Map Produced by Diana Mason

- Units**
- ACTIVE
 - EXPLORATORY
 - GAS STORAGE
 - NF PP OIL
 - NF SECONDARY
 - PI OIL
 - PP GAS
 - PP GEOTHERMAL
 - PP OIL
 - SECONDARY
 - TERMINATED
- Fields**
- Unknown
 - ABANDONED
 - ACTIVE
 - COMBINED
 - INACTIVE
 - STORAGE
 - TERMINATED



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
WELL PAD - NBU 922-34H		
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
WELL PAD - NBU 922-34H4		
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: 43047537370000

WELL NAME: NBU 922-34A4CS

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

PHONE NUMBER: 720 929-6086

CONTACT: Gina Becker

PROPOSED LOCATION: NENE 34 090S 220E

Permit Tech Review:

SURFACE: 1321 FNL 0766 FEL

Engineering Review:

BOTTOM: 1084 FNL 0494 FEL

Geology Review:

COUNTY: UINTAH

LATITUDE: 39.99609

LONGITUDE: -109.41940

UTM SURF EASTINGS: 634930.00

NORTHINGS: 4428520.00

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

Commingling Approved

LOCATION AND SITING:

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

Comments: Presite Completed

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



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 922-34A4CS
API Well Number: 43047537370000
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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
1. TYPE OF WELL Gas Well	5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0149077
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
PHONE NUMBER: 720 929-6100	8. WELL NAME and NUMBER: NBU 922-34A4CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1321 FNL 0766 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 34 Township: 09.0S Range: 22.0E Meridian: S	9. API NUMBER: 43047537370000
	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
	COUNTY: UINTAH
	STATE: UTAH

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

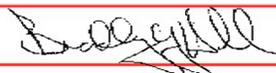
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 5/22/2014	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

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

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

Date: March 10, 2014

By: 

NAME (PLEASE PRINT) Teena Paulo	PHONE NUMBER 720 929-6236	TITLE Staff Regulatory Specialist
SIGNATURE N/A	DATE 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 43047537370000

API: 43047537370000

Well Name: NBU 922-34A4CS

Location: 1321 FNL 0766 FEL QTR NENE 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.

RECEIVED

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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 922-34A4CS	
9. API Well No. 4304753737	
10. Field and Pool, or Exploratory NATURAL BUTTES	
11. Sec., T., R., M., or Blk. and Survey or Area Sec 34 T9S R22E Mer SLB	
12. County or Parish UINTAH	13. State UT
17. Spacing Unit dedicated to this well	
20. BLM/BIA Bond No. on file WYB000291	
23. Estimated duration 60-90 DAYS	

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER	
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone	
2. Name of Operator KERR-MCGEE OIL & GAS ONSHORE Contact: GINA T BECKER Email: GINA.BECKER@ANADARKO.COM	
3a. Address P.O. BOX 173779 DENVER, CO 80202-3779	3b. Phone No. (include area code) Ph: 720-929-6086 Fx: 720-929-7086
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NENE 1321FNL 766FEL 39.996140 N Lat, 109.419434 W Lon At proposed prod. zone NENE 1084FNL 494FEL 39.996788 N Lat, 109.418465 W Lon	
14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 47 MILES SOUTHEAST OF VERNAL, UTAH	
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
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 385	19. Proposed Depth 8860 MD 8834 TVD
21. Elevations (Show whether DF, KB, RT, GL, etc.) 4854 GL	22. Approximate date work will start 09/01/2013

24. Attachments

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

- | | |
|---|--|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature (Electronic Submission)	Name (Printed/Typed) 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 Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

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

CONDITIONS OF APPROVAL ATTACHED

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

Additional Operator Remarks (see next page)

Electronic Submission #200143 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 **

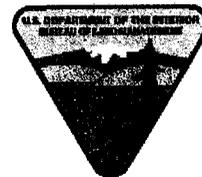


UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: KERR MCGEE OIL&GAS ONSHORE LP Location: NENE, Sec. 34, T9S, R22E
Well No: NBU 922-34A4CS Lease No: UTU-0149077
API No: 43-047-53737 Agreement:

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

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

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

NOTIFICATION REQUIREMENTS

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

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

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
 - All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
 - If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
 - If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.
-
- 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.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid,

and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0149077	
SUNDRY NOTICES AND REPORTS ON WELLS	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES	
8. WELL NAME and NUMBER: NBU 922-34A4CS	
9. API NUMBER: 43047537370000	
9. FIELD and POOL or WILDCAT: NATURAL BUTTES	
COUNTY: Uintah	
STATE: UTAH	
1. TYPE OF WELL Gas Well	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 PHONE NUMBER: 720 929-6100	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1321 FNL 0766 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 34 Township: 09.0S Range: 22.0E Meridian: S	

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 3/26/2015	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

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

Approved by the
March 30, 2015
Oil, Gas and Mining

Date: _____
By: 

NAME (PLEASE PRINT) Joel Malefy	PHONE NUMBER 720 929-6828	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 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 43047537370000

API: 43047537370000

Well Name: NBU 922-34A4CS

Location: 1321 FNL 0766 FEL QTR NENE 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.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
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SUNDRY NOTICES AND REPORTS ON WELLS	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
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11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	
1. TYPE OF WELL Gas Well	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6100
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1321 FNL 0766 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 34 Township: 09.0S Range: 22.0E Meridian: S	COUNTY: Uintah STATE: UTAH

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 7/10/2015	<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 07/10/2015 @ 11:30. 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 08/02/2015.

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

July 14, 2015

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0149077
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
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4. LOCATION OF WELL FOOTAGES AT SURFACE: 1306 FNL 0767 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 34 Township: 09.0S Range: 22.0E Meridian: S	COUNTY: UINTAH STATE: UTAH

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

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

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

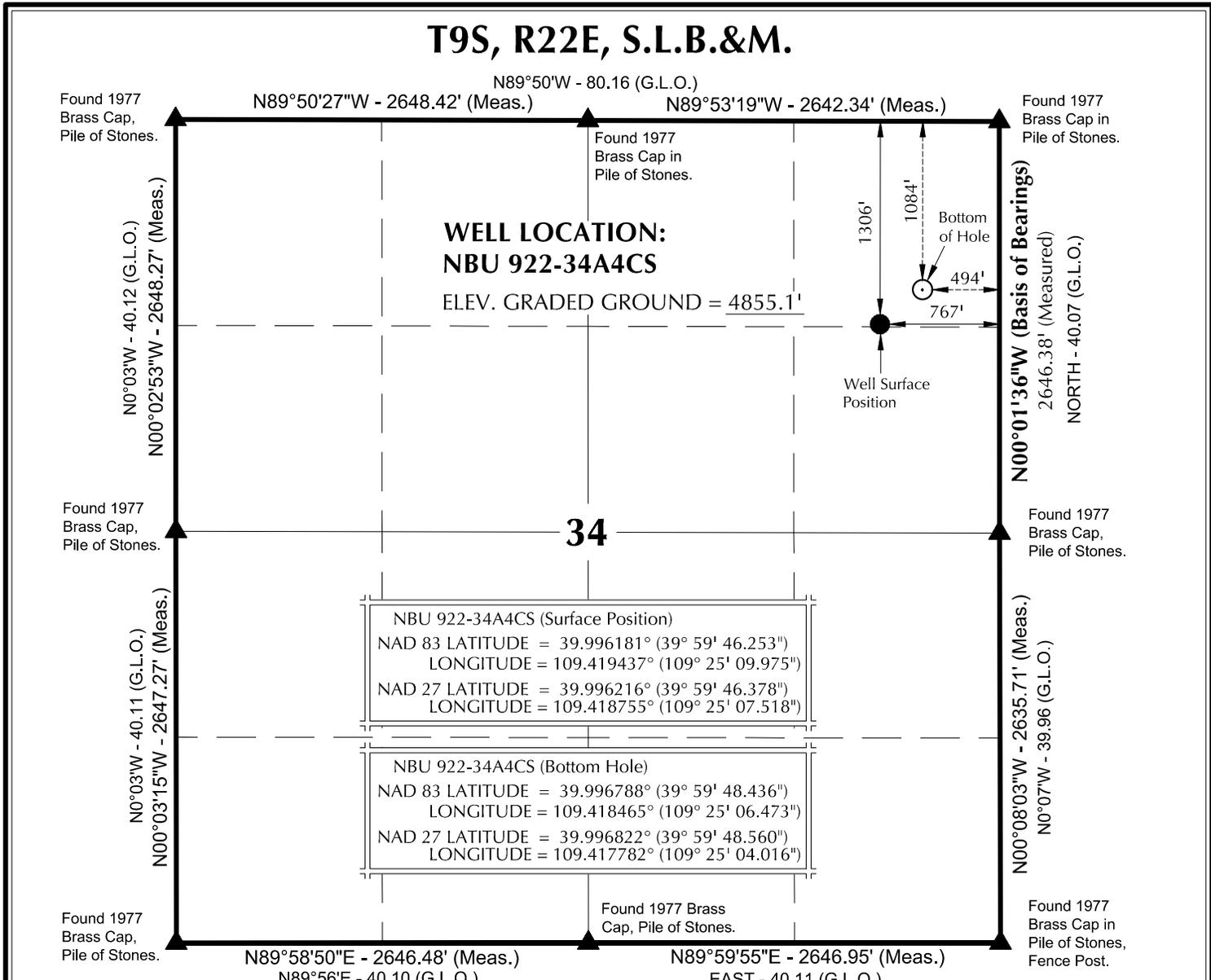
Kerr-McGee Oil & Gas Onshore, LP respectfully requests move the surface hole location for the subject well. In addition, Kerr-McGee also requests to change the depth in which conductor is set from 40' to between 80'-150' and to change the conductor size from 14" to 16". Please see the updated plat, drill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

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

Date: _____
 By: 

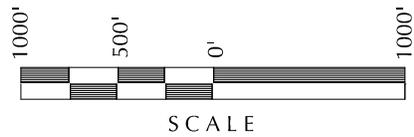
NAME (PLEASE PRINT) Kristina Geno	PHONE NUMBER 720 929-6824	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 8/27/2015	

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 N50°57'19"E 350.88' 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.

PROF. 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 922-34A4CS
WELL PLAT
1084' FNL, 494' FEL (Bottom Hole)
NE 1/4 NE 1/4 OF SECTION 34, T9S, R22E,
S.L.B.&M., UTAH 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: 7
DATE DRAWN: 6-15-12	DRAWN BY: J.G.C.	
SCALE: 1" = 1000'	Date Last Revised: 8-14-15 M.W.W.	7 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 922-34A4CS**

Surface: 1306 FNL / 767 FEL NENE
 BHL: 1084 FNL / 494 FEL NENE

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	1,128'	
Birds Nest	1,418'	Water
Mahogany	1,872'	Water
Wasatch	4,272'	Gas
Mesaverde	6,592'	Gas
Sego	8,834'	Gas
TVD	8,870'	
TD	8,896'	

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 8870' TVD, approximately equals
5,411 psi 0.61 psi/ft = actual bottomhole gradient

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

Maximum anticipated surface pressure equals approximately 3,483 psi (bottom hole pressure
minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

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

8. Anticipated Starting Dates:

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

9. Variances:

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

10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS			
						BURST	LTC		DQX TENSION
							COLLAPSE		
CONDUCTOR	16"	150'							
SURFACE	8-5/8"	0 to 2,320	28.00	IJ-55	LTC	3,390	1,880	348,000	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		3.17
						7,780	6,350	223,000	267,035
	4-1/2"	5,000 to 8,896'	11.60	I-80	LTC	1.11	1.15	6.04	

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
NOTE: If well will circulate water to surface, option 2 will be utilized						
SURFACE Option 2	LEAD 1,820'	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 3,766'	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 5,130'	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:

Nick Spence / John Tuckwiller / Brian Cocchiere / Tyler Elliott

DATE:

DRILLING SUPERINTENDENT:

Kenny Gathings / Lovel Young

DATE:

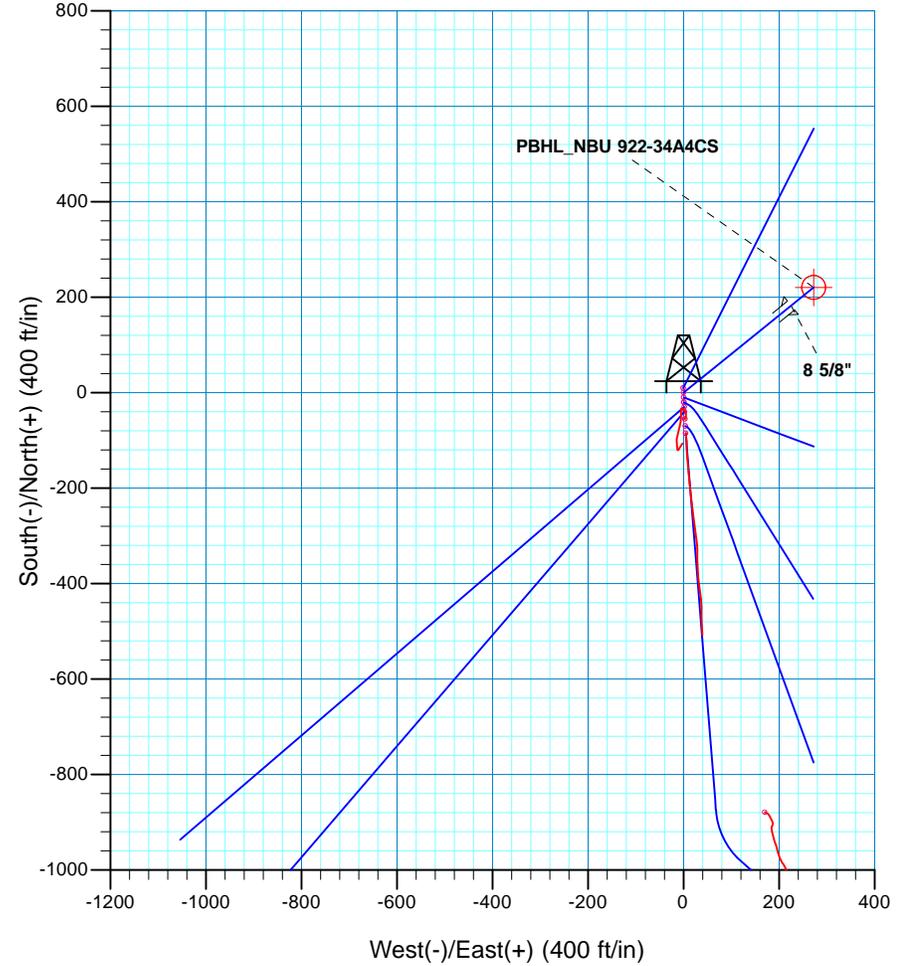
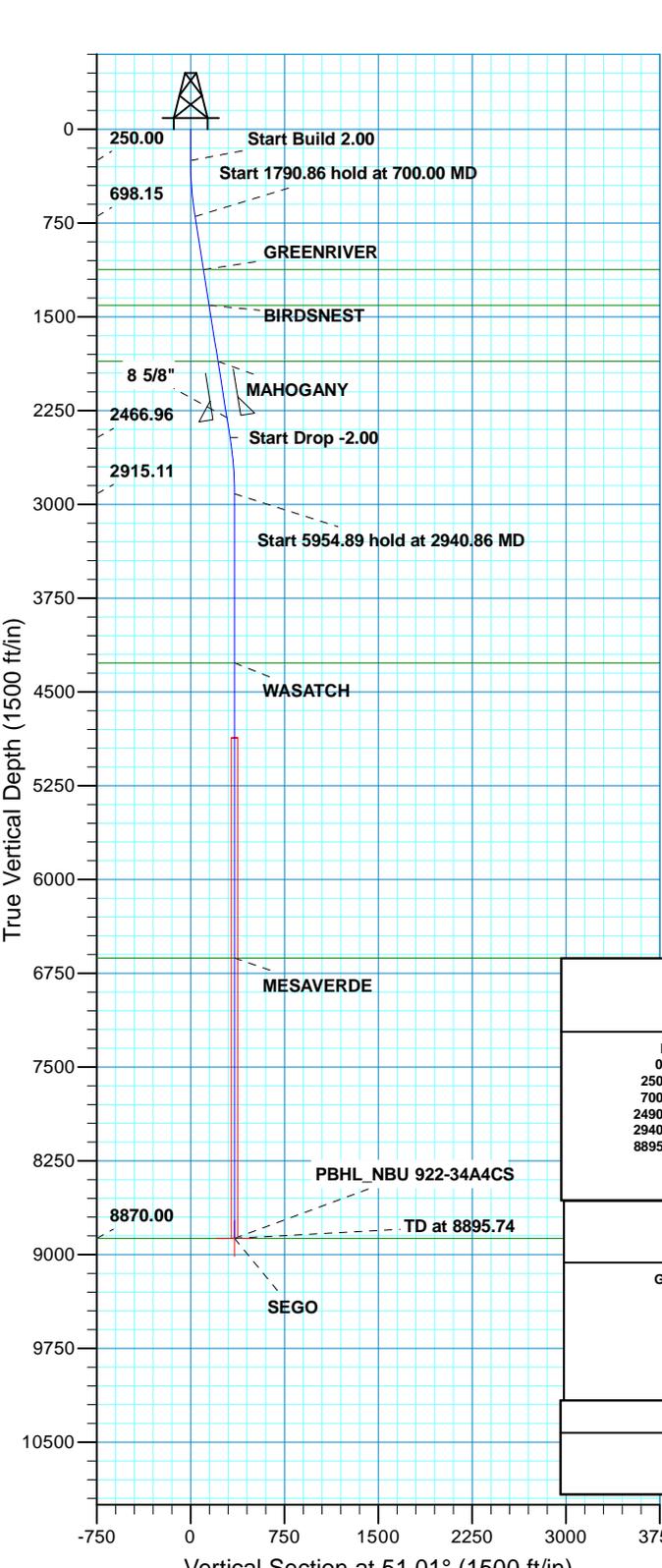


T
M

Azimuths to True North
Magnetic North: 10.56°

Magnetic Field
Strength: 51884.5snT
Dip Angle: 65.84°
Date: 7/20/2015
Model: BGGM2015

WELL DETAILS: NBU 922-34A4CS						
GL 4854 & KB 4 @ 4858.00r (PROPETRO 12)						
+N-S	+E-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	14528595.02	2083291.79	39.9962162	-109.4187550	
DESIGN TARGET DETAILS						
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude
PBHL	8870.00	220.65	272.58	14528820.46	2083560.41	39.9968220
- plan hits target center						
						Longitude
						Shape
						Circle (Radius: 25.00)



SECTION DETAILS							
MD	Inc	Azi	TVD	+N-S	+E-W	Dleg TFace	V Sect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00
700.00	9.00	51.01	698.15	22.19	27.41	2.00	51.01
2490.86	9.00	51.01	2466.96	198.45	245.17	0.00	0.00
2940.86	0.00	0.00	2915.11	220.65	272.58	2.00	180.00
8895.74	0.00	0.00	8870.00	220.65	272.58	0.00	0.00
PBHL_NBU 922-34A4CS							

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
1122.00	1129.13	GREENRIVER
1408.00	1418.70	BIRDSNEST
1856.00	1872.28	MAHOGANY
4268.00	4293.74	WASATCH
6627.00	6652.74	MESAVERDE
8869.99	8895.73	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
2306.00	2327.89	8 5/8"	8.625

REC



US ROCKIES REGION PLANNING

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

NBU 922-34H PAD

NBU 922-34A4CS

OH

Plan: PLAN #2 SURFACE

Standard Planning Report

10 August, 2015





Planning Report



Database:	Denver Sales	Local Co-ordinate Reference:	Well NBU 922-34A4CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4854 & KB 4 @ 4858.00ft (PROPETRO 12)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4854 & KB 4 @ 4858.00ft (PROPETRO 12)
Site:	NBU 922-34H PAD	North Reference:	True
Well:	NBU 922-34A4CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2 SURFACE		

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

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

Well	NBU 922-34A4CS, 1321 FNL 766 FEL					
Well Position	+N/-S	5.17 ft	Northing:	14,528,595.02 usft	Latitude:	39.9962162
	+E/-W	-0.29 ft	Easting:	2,083,291.78 usft	Longitude:	-109.4187551
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,854.00 ft

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

Design	PLAN #2 SURFACE			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	51.01

Plan Sections										
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	
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.00	9.00	51.01	698.15	22.19	27.41	2.00	2.00	0.00	51.01	
2,490.86	9.00	51.01	2,466.96	198.45	245.17	0.00	0.00	0.00	0.00	
2,940.86	0.00	0.00	2,915.11	220.65	272.58	2.00	-2.00	0.00	180.00	
8,895.75	0.00	0.00	8,870.00	220.65	272.58	0.00	0.00	0.00	0.00	PBHL_NBU 922-34A4



Database:	Denver Sales	Local Co-ordinate Reference:	Well NBU 922-34A4CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4854 & KB 4 @ 4858.00ft (PROPETRO 12)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4854 & KB 4 @ 4858.00ft (PROPETRO 12)
Site:	NBU 922-34H PAD	North Reference:	True
Well:	NBU 922-34A4CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	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
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00										
300.00	1.00	51.01	300.00	0.27	0.34	0.44	2.00	2.00	0.00	0.00
400.00	3.00	51.01	399.93	2.47	3.05	3.93	2.00	2.00	0.00	0.00
500.00	5.00	51.01	499.68	6.86	8.47	10.90	2.00	2.00	0.00	0.00
600.00	7.00	51.01	599.13	13.44	16.60	21.35	2.00	2.00	0.00	0.00
700.00	9.00	51.01	698.15	22.19	27.41	35.27	2.00	2.00	0.00	0.00
Start 1790.86 hold at 700.00 MD										
800.00	9.00	51.01	796.92	32.03	39.57	50.91	0.00	0.00	0.00	0.00
900.00	9.00	51.01	895.69	41.88	51.73	66.56	0.00	0.00	0.00	0.00
1,000.00	9.00	51.01	994.46	51.72	63.89	82.20	0.00	0.00	0.00	0.00
1,100.00	9.00	51.01	1,093.23	61.56	76.05	97.84	0.00	0.00	0.00	0.00
1,129.13	9.00	51.01	1,122.00	64.43	79.59	102.40	0.00	0.00	0.00	0.00
GREENRIVER										
1,200.00	9.00	51.01	1,192.00	71.40	88.21	113.49	0.00	0.00	0.00	0.00
1,300.00	9.00	51.01	1,290.76	81.25	100.37	129.13	0.00	0.00	0.00	0.00
1,400.00	9.00	51.01	1,389.53	91.09	112.53	144.77	0.00	0.00	0.00	0.00
1,418.70	9.00	51.01	1,408.00	92.93	114.80	147.70	0.00	0.00	0.00	0.00
BIRDSNEST										
1,500.00	9.00	51.01	1,488.30	100.93	124.69	160.42	0.00	0.00	0.00	0.00
1,600.00	9.00	51.01	1,587.07	110.77	136.85	176.06	0.00	0.00	0.00	0.00
1,700.00	9.00	51.01	1,685.84	120.62	149.01	191.70	0.00	0.00	0.00	0.00
1,800.00	9.00	51.01	1,784.61	130.46	161.16	207.35	0.00	0.00	0.00	0.00
1,872.28	9.00	51.01	1,856.00	137.57	169.95	218.66	0.00	0.00	0.00	0.00
MAHOGANY										
1,900.00	9.00	51.01	1,883.38	140.30	173.32	222.99	0.00	0.00	0.00	0.00
2,000.00	9.00	51.01	1,982.15	150.14	185.48	238.64	0.00	0.00	0.00	0.00
2,100.00	9.00	51.01	2,080.92	159.98	197.64	254.28	0.00	0.00	0.00	0.00
2,200.00	9.00	51.01	2,179.68	169.83	209.80	269.92	0.00	0.00	0.00	0.00
2,300.00	9.00	51.01	2,278.45	179.67	221.96	285.57	0.00	0.00	0.00	0.00
2,327.89	9.00	51.01	2,306.00	182.41	225.35	289.93	0.00	0.00	0.00	0.00
8 5/8"										
2,400.00	9.00	51.01	2,377.22	189.51	234.12	301.21	0.00	0.00	0.00	0.00
2,490.86	9.00	51.01	2,466.96	198.45	245.17	315.42	0.00	0.00	0.00	0.00
Start Drop -2.00										
2,500.00	8.82	51.01	2,475.99	199.35	246.27	316.84	2.00	-2.00	0.00	0.00
2,600.00	6.82	51.01	2,575.06	207.90	256.84	330.44	2.00	-2.00	0.00	0.00
2,700.00	4.82	51.01	2,674.54	214.28	264.72	340.57	2.00	-2.00	0.00	0.00
2,800.00	2.82	51.01	2,774.31	218.47	269.89	347.23	2.00	-2.00	0.00	0.00
2,900.00	0.82	51.01	2,874.26	220.46	272.36	350.40	2.00	-2.00	0.00	0.00
2,940.86	0.00	0.00	2,915.11	220.65	272.58	350.69	2.00	-2.00	-124.86	0.00
Start 5954.89 hold at 2940.86 MD										
3,000.00	0.00	0.00	2,974.26	220.65	272.58	350.69	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,074.26	220.65	272.58	350.69	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,174.26	220.65	272.58	350.69	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,274.26	220.65	272.58	350.69	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,374.26	220.65	272.58	350.69	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,474.26	220.65	272.58	350.69	0.00	0.00	0.00	0.00



Planning Report



Database:	Denver Sales	Local Co-ordinate Reference:	Well NBU 922-34A4CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4854 & KB 4 @ 4858.00ft (PROPETRO 12)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4854 & KB 4 @ 4858.00ft (PROPETRO 12)
Site:	NBU 922-34H PAD	North Reference:	True
Well:	NBU 922-34A4CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	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	3,574.26	220.65	272.58	350.69	0.00	0.00	0.00	
3,700.00	0.00	0.00	3,674.26	220.65	272.58	350.69	0.00	0.00	0.00	
3,800.00	0.00	0.00	3,774.26	220.65	272.58	350.69	0.00	0.00	0.00	
3,900.00	0.00	0.00	3,874.26	220.65	272.58	350.69	0.00	0.00	0.00	
4,000.00	0.00	0.00	3,974.26	220.65	272.58	350.69	0.00	0.00	0.00	
4,100.00	0.00	0.00	4,074.26	220.65	272.58	350.69	0.00	0.00	0.00	
4,200.00	0.00	0.00	4,174.26	220.65	272.58	350.69	0.00	0.00	0.00	
4,293.75	0.00	0.00	4,268.00	220.65	272.58	350.69	0.00	0.00	0.00	
WASATCH										
4,300.00	0.00	0.00	4,274.26	220.65	272.58	350.69	0.00	0.00	0.00	
4,400.00	0.00	0.00	4,374.26	220.65	272.58	350.69	0.00	0.00	0.00	
4,500.00	0.00	0.00	4,474.26	220.65	272.58	350.69	0.00	0.00	0.00	
4,600.00	0.00	0.00	4,574.26	220.65	272.58	350.69	0.00	0.00	0.00	
4,700.00	0.00	0.00	4,674.26	220.65	272.58	350.69	0.00	0.00	0.00	
4,800.00	0.00	0.00	4,774.26	220.65	272.58	350.69	0.00	0.00	0.00	
4,900.00	0.00	0.00	4,874.26	220.65	272.58	350.69	0.00	0.00	0.00	
5,000.00	0.00	0.00	4,974.26	220.65	272.58	350.69	0.00	0.00	0.00	
5,100.00	0.00	0.00	5,074.26	220.65	272.58	350.69	0.00	0.00	0.00	
5,200.00	0.00	0.00	5,174.26	220.65	272.58	350.69	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,274.26	220.65	272.58	350.69	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,374.26	220.65	272.58	350.69	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,474.26	220.65	272.58	350.69	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,574.26	220.65	272.58	350.69	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,674.26	220.65	272.58	350.69	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,774.26	220.65	272.58	350.69	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,874.26	220.65	272.58	350.69	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,974.26	220.65	272.58	350.69	0.00	0.00	0.00	
6,100.00	0.00	0.00	6,074.26	220.65	272.58	350.69	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,174.26	220.65	272.58	350.69	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,274.26	220.65	272.58	350.69	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,374.26	220.65	272.58	350.69	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,474.26	220.65	272.58	350.69	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,574.26	220.65	272.58	350.69	0.00	0.00	0.00	
6,652.75	0.00	0.00	6,627.00	220.65	272.58	350.69	0.00	0.00	0.00	
MESAVERDE										
6,700.00	0.00	0.00	6,674.26	220.65	272.58	350.69	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,774.26	220.65	272.58	350.69	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,874.26	220.65	272.58	350.69	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,974.26	220.65	272.58	350.69	0.00	0.00	0.00	
7,100.00	0.00	0.00	7,074.26	220.65	272.58	350.69	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,174.26	220.65	272.58	350.69	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,274.26	220.65	272.58	350.69	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,374.26	220.65	272.58	350.69	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,474.26	220.65	272.58	350.69	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,574.26	220.65	272.58	350.69	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,674.26	220.65	272.58	350.69	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,774.26	220.65	272.58	350.69	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,874.26	220.65	272.58	350.69	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,974.26	220.65	272.58	350.69	0.00	0.00	0.00	
8,100.00	0.00	0.00	8,074.26	220.65	272.58	350.69	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,174.26	220.65	272.58	350.69	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,274.26	220.65	272.58	350.69	0.00	0.00	0.00	



Database:	Denver Sales	Local Co-ordinate Reference:	Well NBU 922-34A4CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4854 & KB 4 @ 4858.00ft (PROPETRO 12)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4854 & KB 4 @ 4858.00ft (PROPETRO 12)
Site:	NBU 922-34H PAD	North Reference:	True
Well:	NBU 922-34A4CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	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	8,374.26	220.65	272.58	350.69	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,474.26	220.65	272.58	350.69	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,574.26	220.65	272.58	350.69	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,674.26	220.65	272.58	350.69	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,774.26	220.65	272.58	350.69	0.00	0.00	0.00	
8,895.74	0.00	0.00	8,869.99	220.65	272.58	350.69	0.00	0.00	0.00	
SEGO										
8,895.75	0.00	0.00	8,870.00	220.65	272.58	350.69	0.00	0.00	0.00	
TD at 8895.74 - PBHL_NBU 922-34A4CS										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
PBHL_NBU 922-34A4C: - hit/miss target - Shape	0.00	0.00	8,870.00	220.65	272.58	14,528,820.47	2,083,560.41	39.9968220	-109.4177820	
- plan hits target center - Circle (radius 25.00)										

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)		
2,327.89	2,306.00	8 5/8"	8.625	11.000		

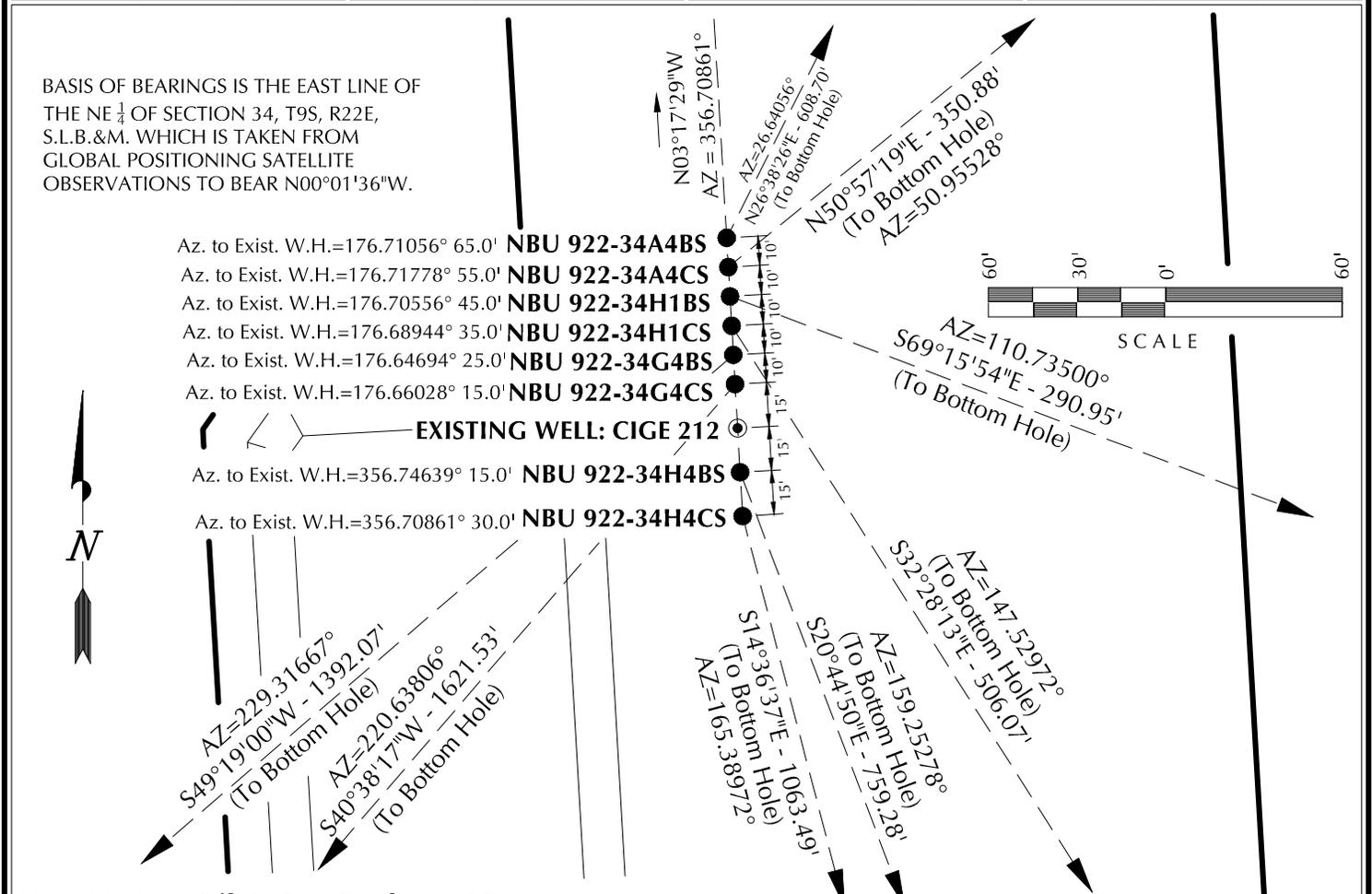
Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,129.13	1,122.00	GREENRIVER				
1,418.70	1,408.00	BIRDSNEST				
1,872.28	1,856.00	MAHOGANY				
4,293.75	4,268.00	WASATCH				
6,652.75	6,627.00	MESAVERDE				
8,895.74	8,869.99	SEGO		0.00		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment	
250.00	250.00	0.00	0.00	Start Build 2.00	
700.00	698.15	22.19	27.41	Start 1790.86 hold at 700.00 MD	
2,490.86	2,466.96	198.45	245.17	Start Drop -2.00	
2,940.86	2,915.11	220.65	272.58	Start 5954.89 hold at 2940.86 MD	
8,895.75	8,870.00	220.65	272.58	TD at 8895.74	

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'



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.

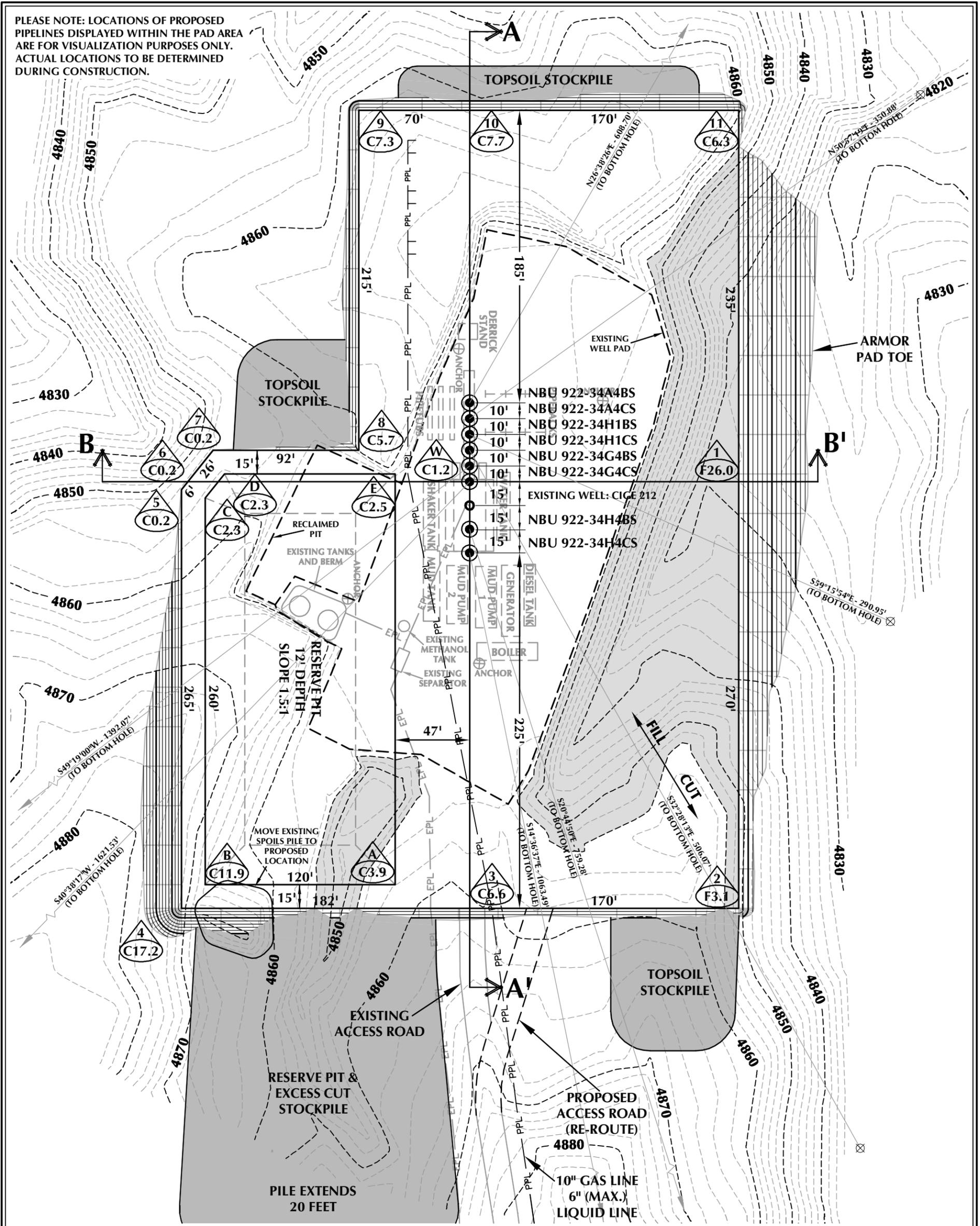


609 CONSULTING, LLC
 1095 Saberton Ave.
 Sheridan, WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

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: 9
DATE DRAWN: 6-15-12	DRAWN BY: J.G.C.	
SCALE: 1" = 60'		9 OF 20

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



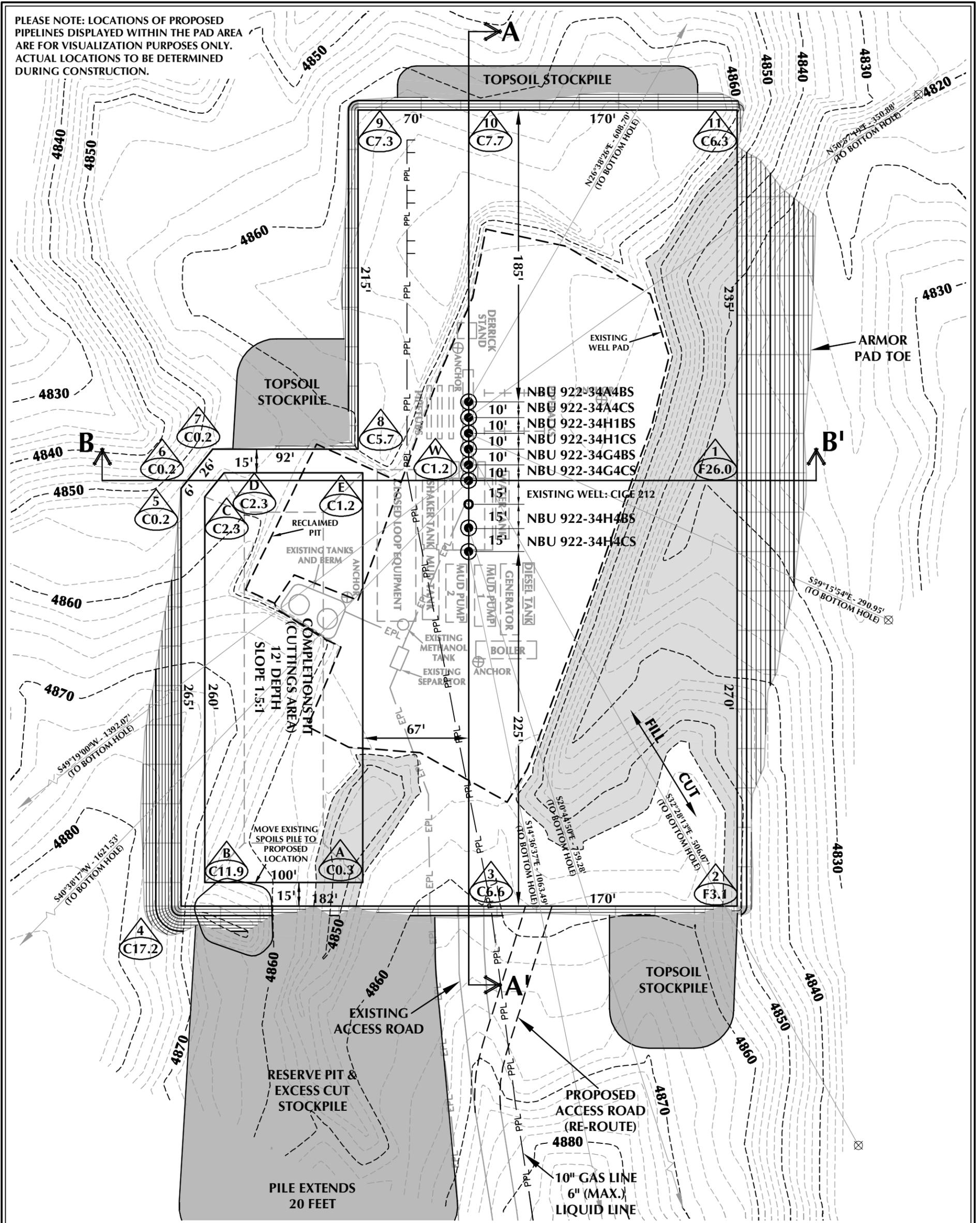
HORIZONTAL 0 30' 60' 1" = 60'

2' CONTOURS

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

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

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

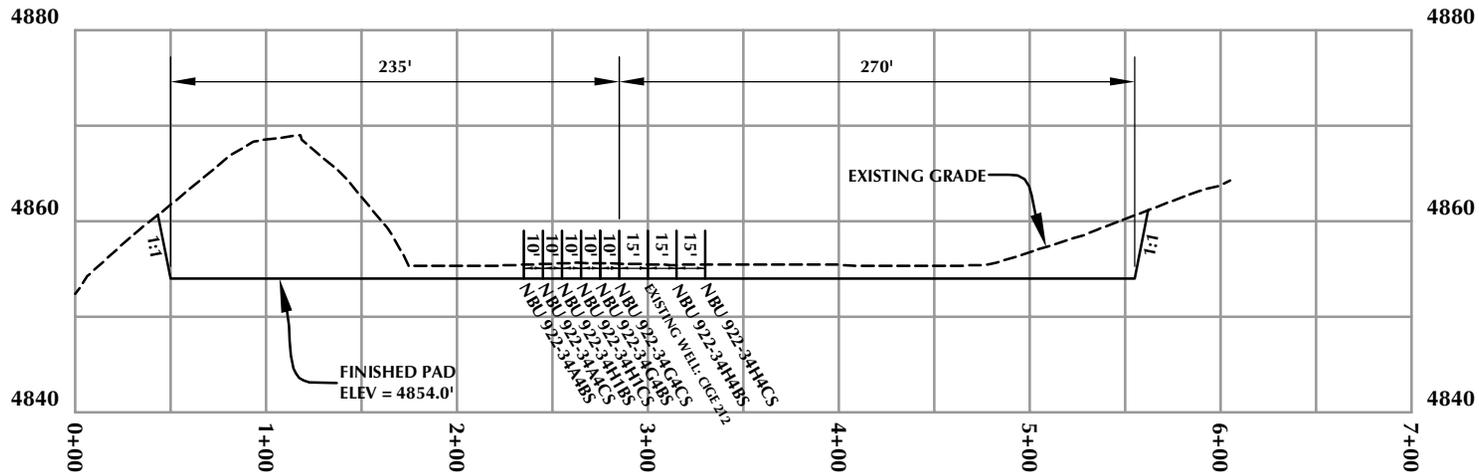


HORIZONTAL 0 30' 60' 1" = 60'

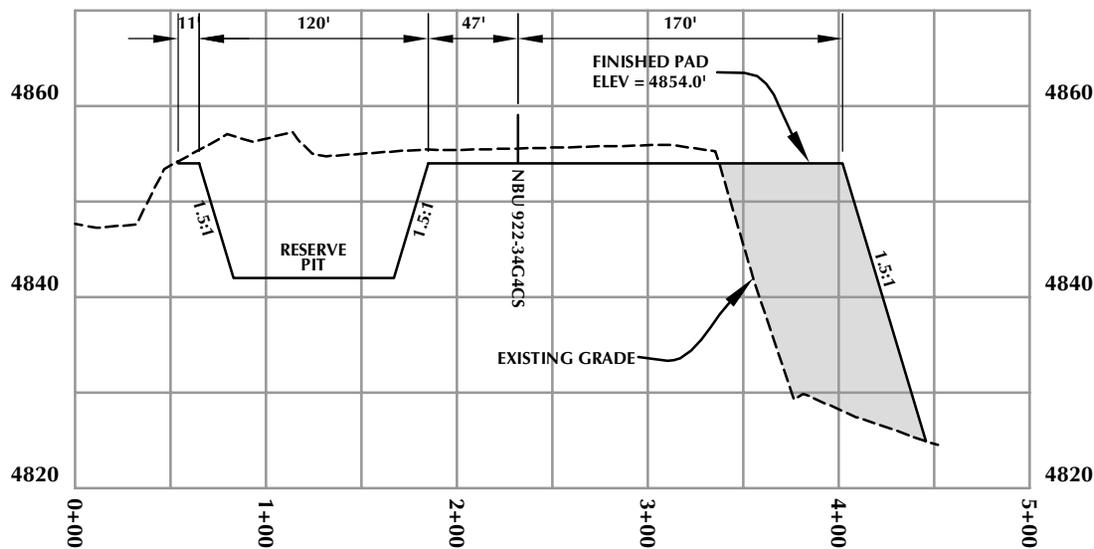
2' CONTOURS

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

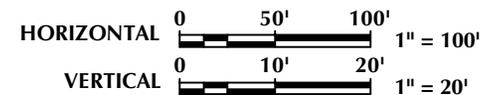
WELL PAD - CROSS SECTIONS
NBU 922-34H4CS, NBU 922-34H4BS,
NBU 922-34G4CS, NBU 922-34G4BS,
NBU 922-34H1CS, NBU 922-34H1BS,
NBU 922-34A4CS & NBU 922-34A4BS
LOCATED IN SECTION 34, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
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TIMBERLINE
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

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Scale: 1"=100'

Date: 7/10/12

SHEET NO:

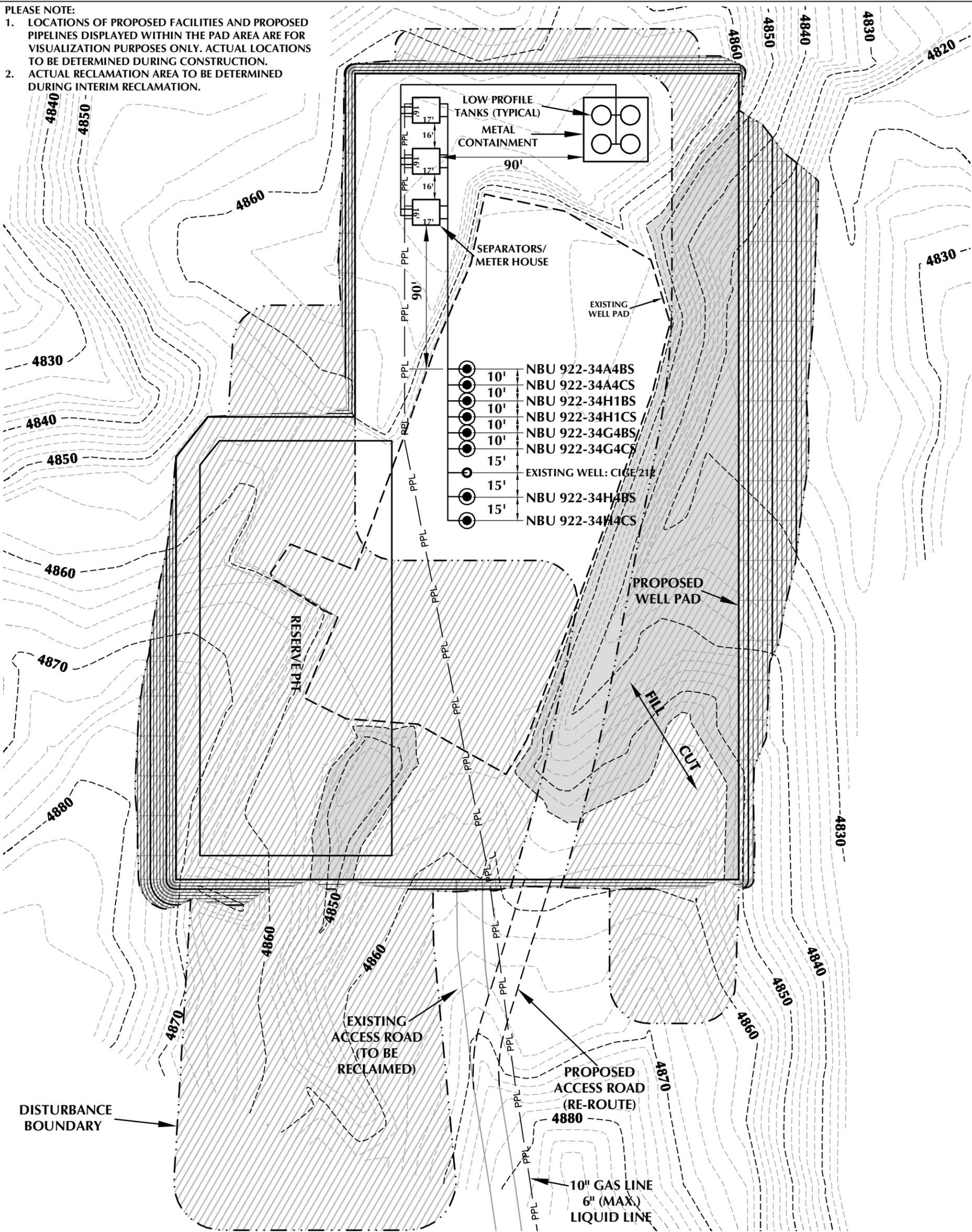
REVISED:

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.



- 10' NBU 922-34A4BS
- 10' NBU 922-34A4CS
- 10' NBU 922-34H1BS
- 10' NBU 922-34H1CS
- 10' NBU 922-34G4BS
- 10' NBU 922-34G4CS
- 15' EXISTING WELL: CIG 212
- 15' NBU 922-34H4BS
- 15' NBU 922-34H4CS

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
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 209 NORTH 300 WEST - VERNAL, UTAH 84078

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

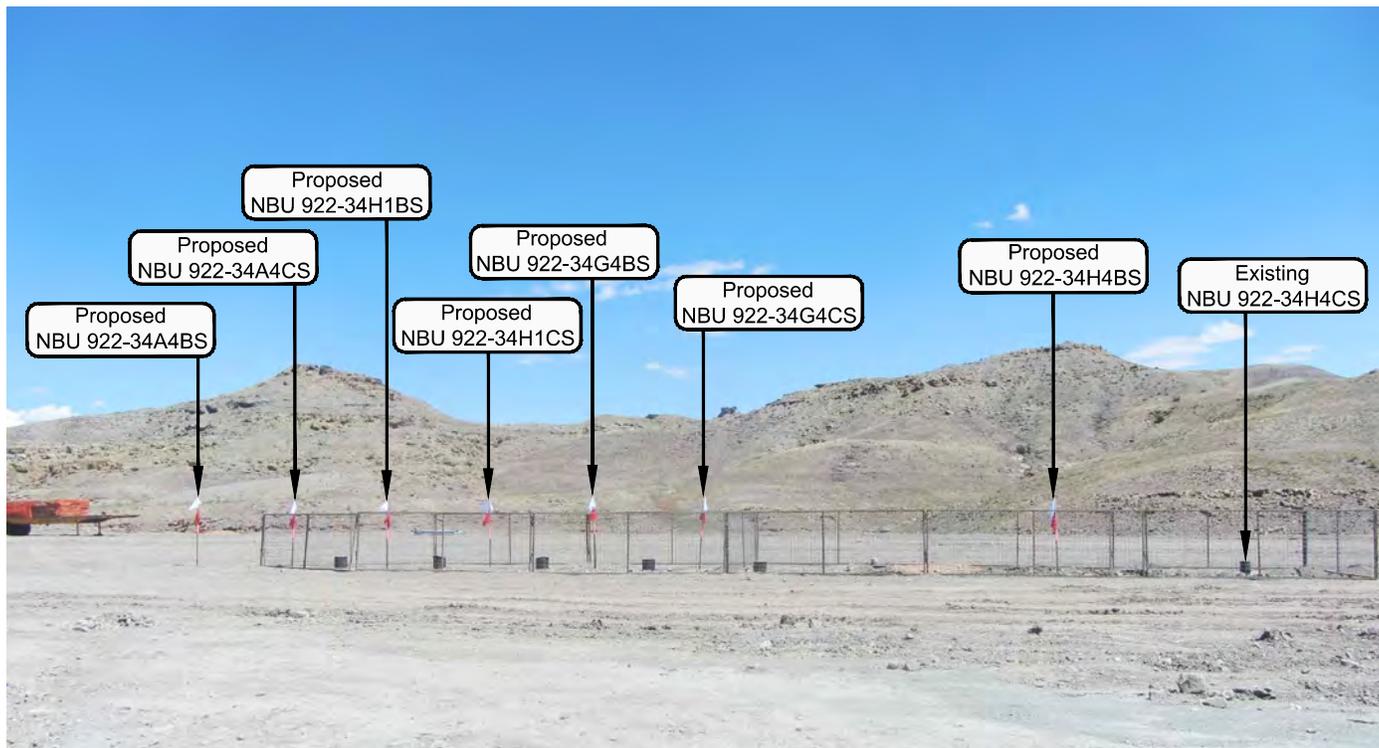


PHOTO VIEW: FROM LOCATION STAKE TO CORNER #1

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

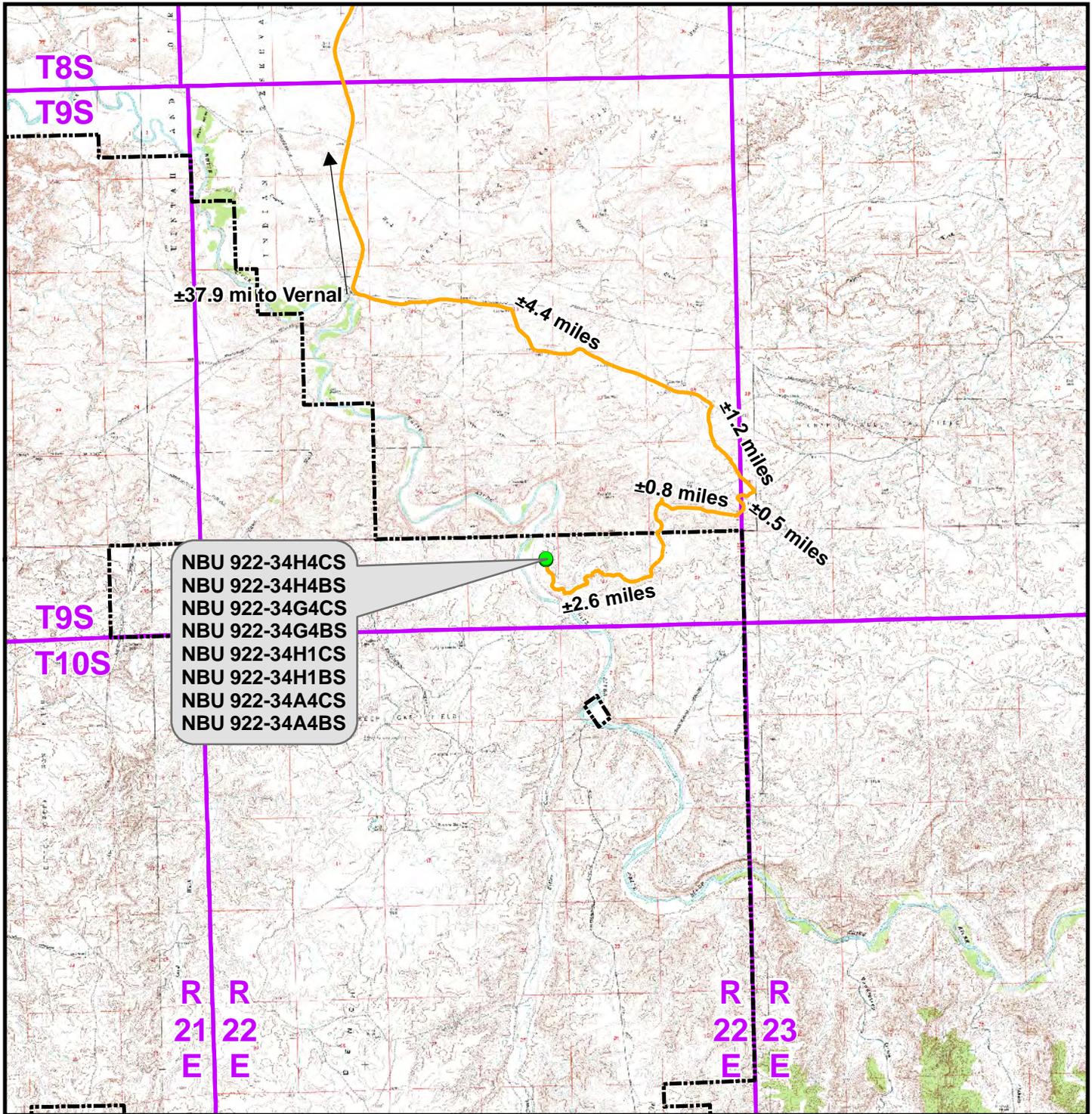
LOCATION PHOTOS
NBU 922-34H4CS, NBU 922-34H4BS,
NBU 922-34G4CS, NBU 922-34G4BS,
NBU 922-34H1CS, NBU 922-34H1BS,
NBU 922-34A4CS & NBU 922-34A4BS
LOCATED IN SECTION 34, T9S, R22E,
S.L.B.&M., Uintah County, Utah.



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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: 13
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.**

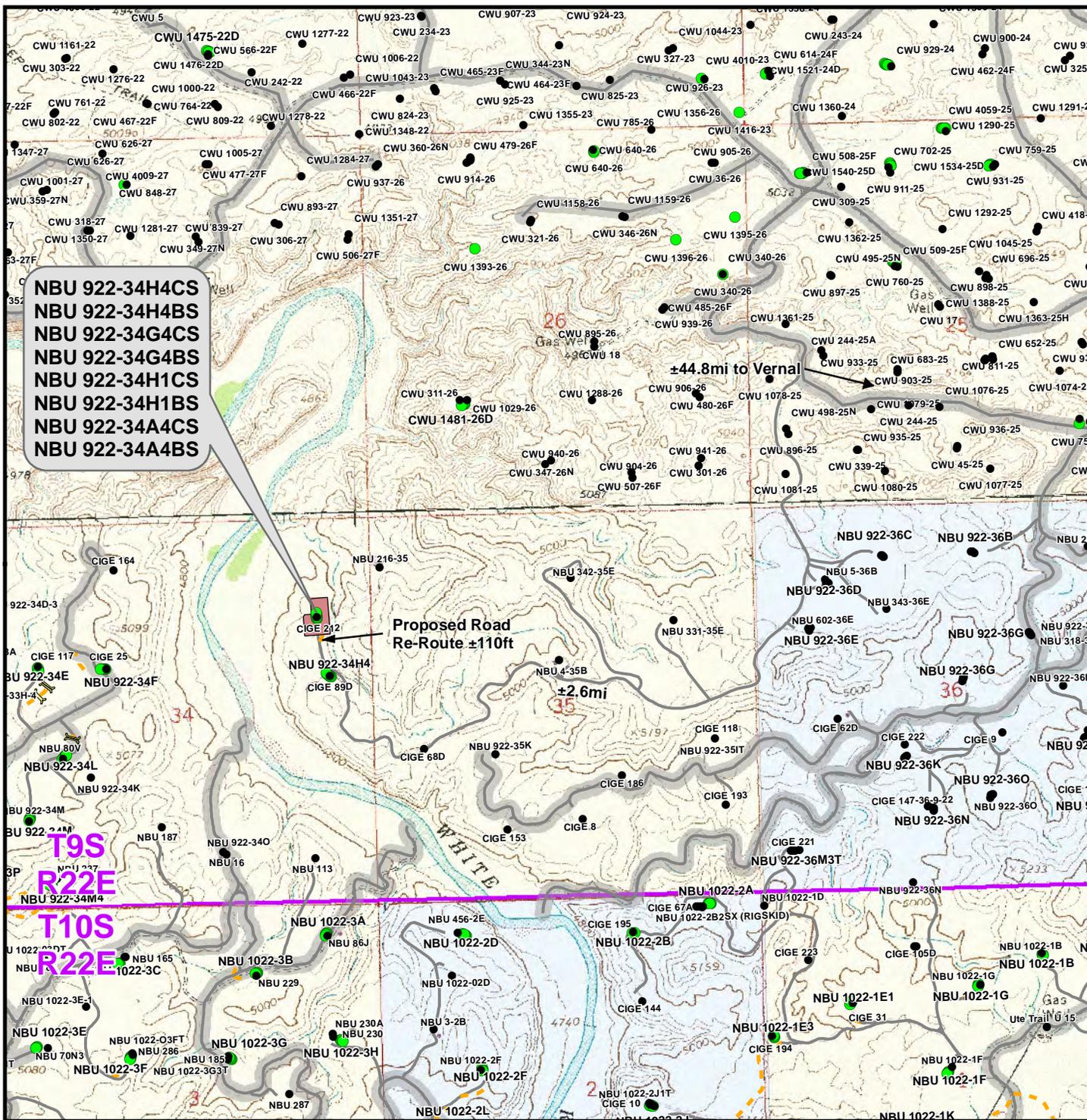
1099 18th Street
 Denver, Colorado 80202



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	14
REVISED:	DATE:	14 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 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

DRAWN: TL

REVISED: TL

NAD83 USP Central

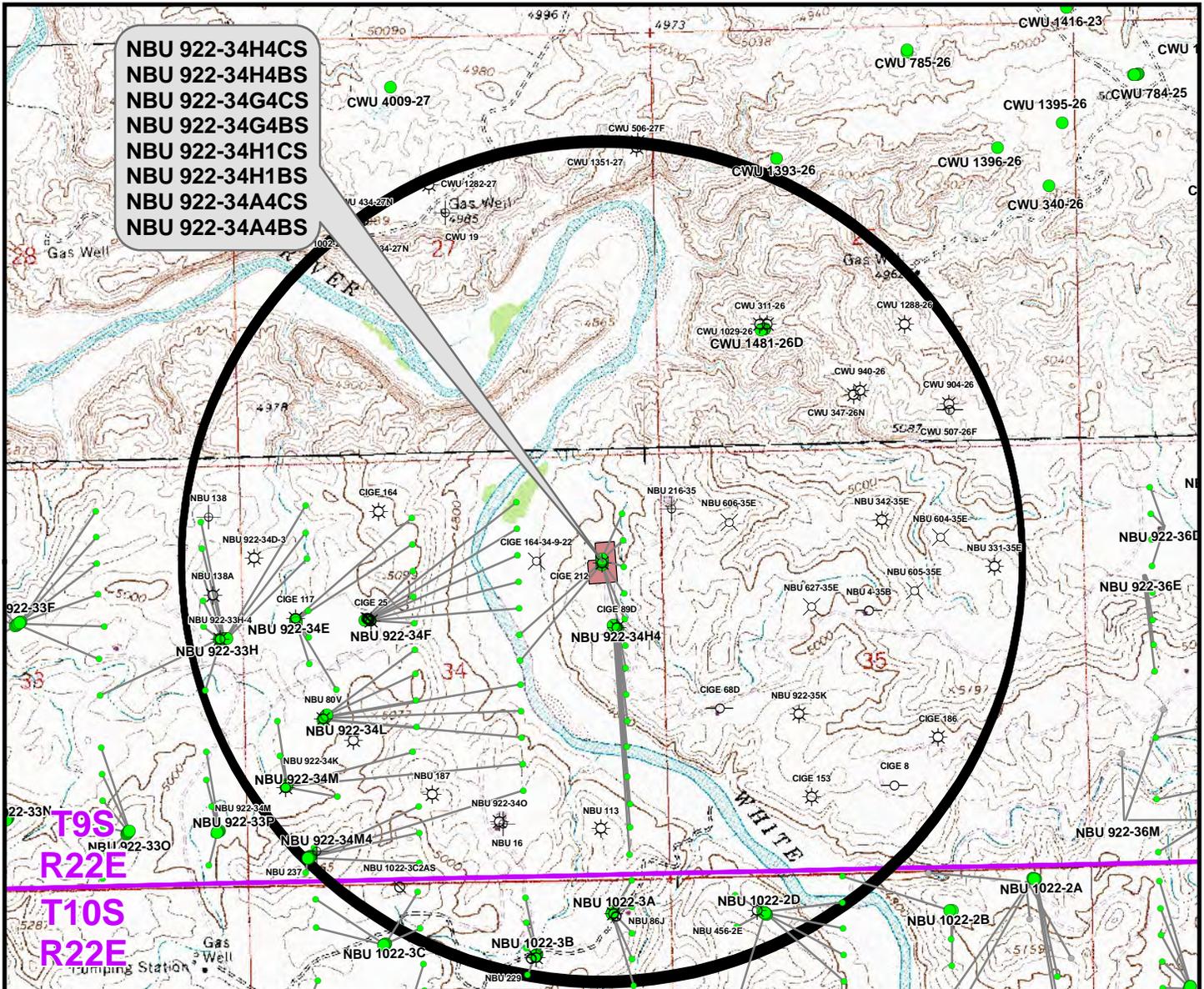
DATE: 5 July 2012

DATE: 18 Sept 2012

SHEET NO:

15

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

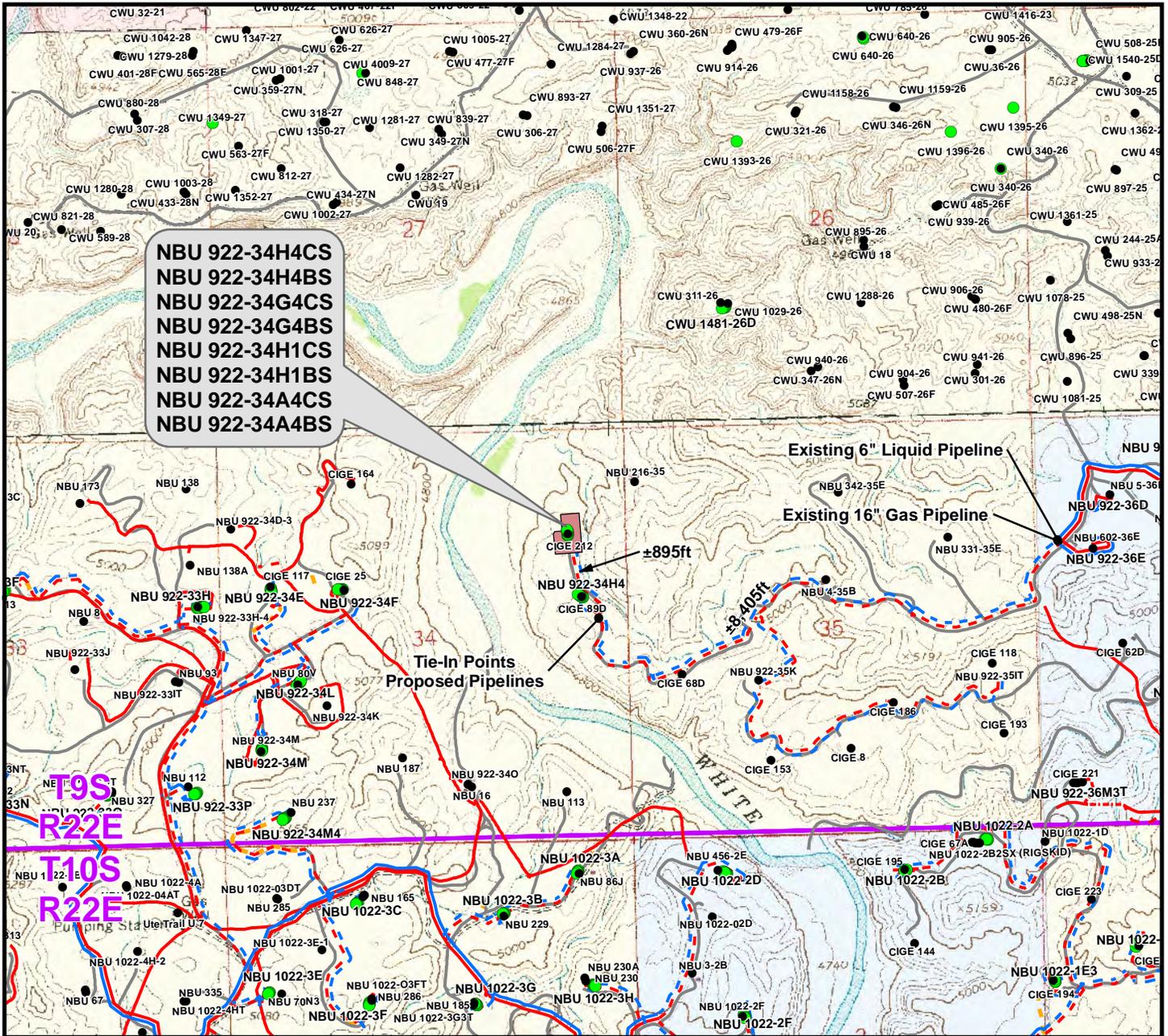
**Kerr-McGee Oil &
 Gas Onshore L.P.**
 1099 18th Street
 Denver, Colorado 80202



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

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

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

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

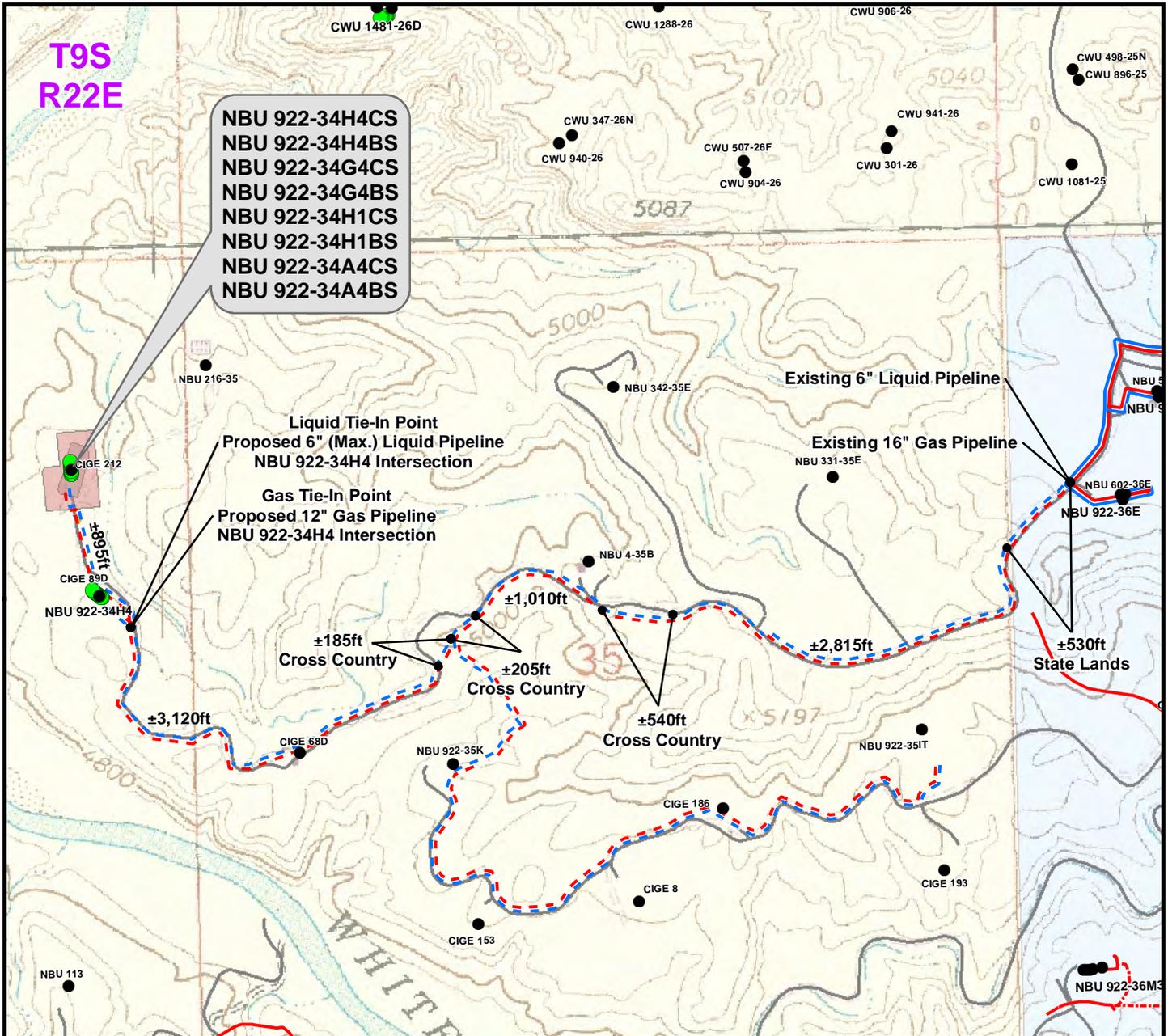
609 CONSULTING, LLC
 2155 North Main Street
 Sheridan, Wyoming 82801
 Phone 307-674-0609
 Fax 307-674-0182

N

SCALE: 1" = 2,000ft	NAD83 USP Central	17
DRAWN: TL	DATE: 18 Sept 2012	
REVISED:	DATE:	

SHEET NO:
17 OF 20

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**

**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
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±1,095ft

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

Legend

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

WELL PAD - NBU 922-34H

**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.**

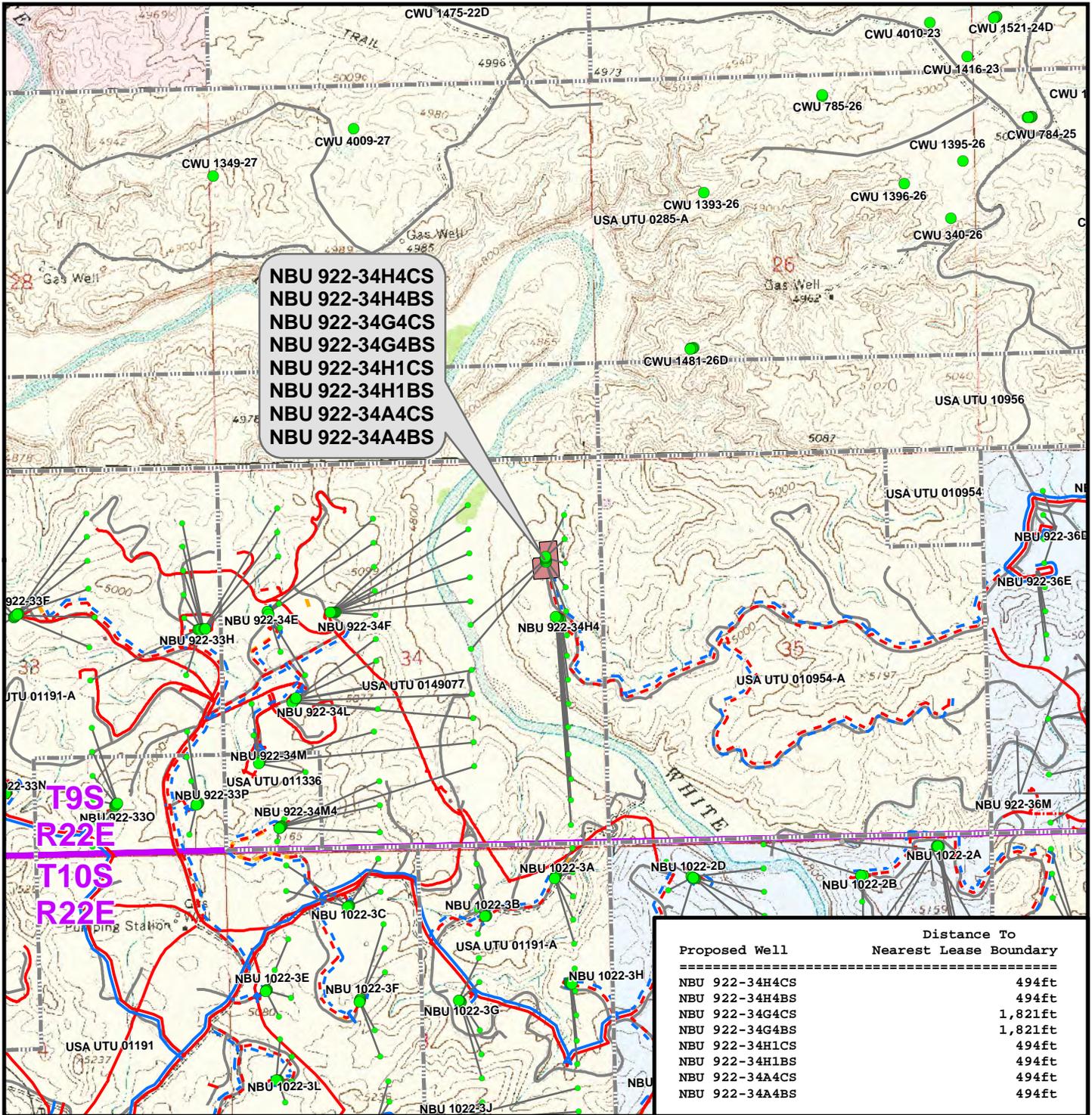
**1099 18th Street
 Denver, Colorado 80202**



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

SCALE: 1" = 1,000ft	NAD83 USP Central	18 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_922-34\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	19
DRAWN: TL	DATE: 18 Sept 2012	
REVISED:	DATE:	

SHEET NO:
19 OF 20

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0149077
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 922-34A4CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047537370000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6100
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1306 FNL 0767 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 34 Township: 09.0S Range: 22.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 9/15/2015	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input 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 922-34A4CS 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:

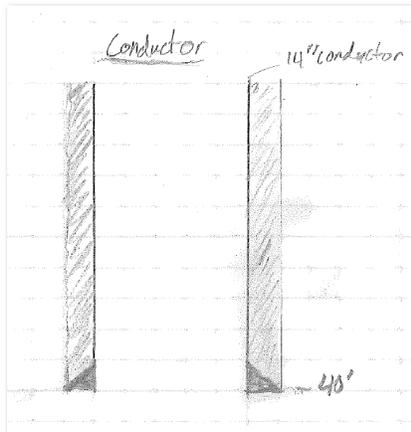
NAME (PLEASE PRINT) Doreen Green	PHONE NUMBER 435 781-9758	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 9/8/2015	

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

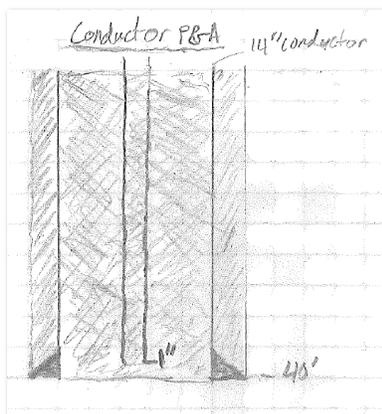
Well Bore Diagram (Before)



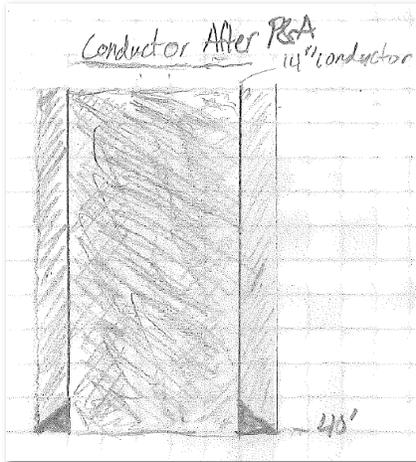
Procedure

- 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)

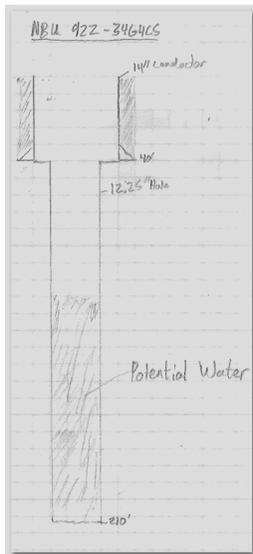


P&A Wellbore Diagram (After)



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

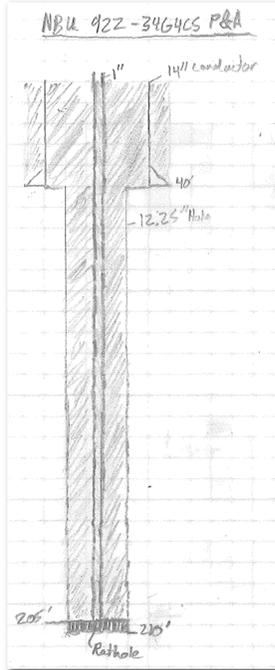
Well Bore Diagram (Before)



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)



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
1. TYPE OF WELL Gas Well	5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0149077
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
PHONE NUMBER: 720 929-6507	8. WELL NAME and NUMBER: NBU 922-34A4CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1306 FNL 0767 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 34 Township: 09.0S Range: 22.0E Meridian: S	9. API NUMBER: 43047537370000
	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
	COUNTY: UINTAH
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input 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 05, 2016

NAME (PLEASE PRINT) Kristina Geno	PHONE NUMBER 720 929-6824	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 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. UTU0149077	
6. If Indian, Allottee or Tribe Name	
7. Unit or CA Agreement Name and No. UTU63047A	
8. Lease Name and Well No. NBU 922-34A4CS	
1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other	9. API Well No. 43-047-53737
b. Type of Completion: <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Workover <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr., Other _____	10. Field and Pool, or Exploratory Natural Buttes
2. Name of Operator KERR-MCGEE OIL AND GAS ONSHORE LP	11. Sec., T., R., M., on Block and Survey or Area Sec 34 T 9S R 22E Mer SLB
Contact: Jennifer Thomas Email: Jennifer.Thomas@anadarko.com	12. County or Parish UINTAH
3. Address P.O. Box 173779 Denver CO 80217	13. State UT
3a. Phone No. (include area code) 720-929-6808	17. Elevations (DF, RKB, RT, GL)* 4,858 RKB
4. Location of Well (Report location clearly and in accordance with Federal requirements)*	
At Surface NENE 1306 FNL 767 FEL Lat. 39.996181 Long. 109.419437	
At top prod. interval reported below NENE	
At total depth NENE Lat. 39.9967874 Long. 109.4184645	
14. Date Spudded 7/10/2015	15. Date T.D. Reached 7/10/2015
16. Date Completed <input checked="" type="checkbox"/> D&A <input type="checkbox"/> Ready to Prod. 1/29/2016	
18. Total Depth: MD 40 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
		24	→					
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.)

No Measurable Gas

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 III

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 922-34A4CS				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: NE/NE/0/9/S/22/E/34/0/0/26/PM/N/1321/E/0/766/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation	
7/10/2015	11:30 - 12:30	1.00	DRLCON	2	A	P	0	DRILL 24" CONDUCTOR HOLE TO 40'	
	12:30 - 13:30	1.00	DCSGCON	12	E	P	40	SET 14" CONDUCTOR CASING AND CEMENT WITH 81 SX CEMENT	
7/11/2015	-								
1/29/2016	7:30 - 8:00	0.50		51	B	P		FILL CONDUCTOR PIPE WITH 45 SX CEMENT TO SURFACE	