API Well Number: 43047537390000

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 922-34G4CS

2. TYPE OF WORK
DRILL NEW WELL ■ REENTER P&A WELL ☐ DEEPEN WELL ☐

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 ■ INDIAN ☐ STATE ☐ FEE ☐

12. SURFACE OWNERSHIP
FEDERAL ■ INDIAN ☐ STATE ☐ FEE ☐

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 ■ (Submit Commingling Application) NO ☐

19. SLANT
VERTICAL ☐ DIRECTIONAL ■ HORIZONTAL ☐

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	1370 FNL 763 FEL	SENE	34	9.0 S	22.0 E	S
Top of Uppermost Producing Zone	2578 FNL 1821 FEL	SWNE	34	9.0 S	22.0 E	S
At Total Depth	2578 FNL 1821 FEL	SWNE	34	9.0 S	22.0 E	S

21. COUNTY
UINTAH

22. DISTANCE TO NEAREST LEASE LINE (Feet)
1821

23. NUMBER OF ACRES IN DRILLING UNIT
600

25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)
1285

26. PROPOSED DEPTH
MD: 9063 TVD: 8801

27. ELEVATION - GROUND LEVEL
4854

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 - 2270	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 - 9063	11.6	I-80 LT&C	12.0	Premium Lite High Strength	290	3.38	12.0
							50/50 Poz	1260	1.31	14.3

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

- ✔ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER
- ✔ COMPLETE DRILLING PLAN
- ☐ AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)
- ☐ FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
- ✔ DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)
- ✔ 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
43047537390000

APPROVAL
Permit Manager

RECEIVED: May 22, 2013

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

NBU 922-34G4CS

Surface: 1370 FNL / 763 FEL SENE
BHL: 2578 FNL / 1821 FEL SWNE

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:

Formation	Depth	Resource
Uinta	0 - Surface	
Green River	1,056'	
Birds Nest	1,373'	Water
Mahogany	1,819'	Water
Wasatch	4,230'	Gas
Mesaverde	6,555'	Gas
Sego	8,801'	Gas
TVD	8,801'	
TD	9,063'	

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

RECEIVED: May 07, 2013

7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 8801' TVD, approximately equals 5,369 psi 0.61 psi/ft = actual bottomhole gradient

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

Maximum anticipated surface pressure equals approximately 3,456 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.

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 922-34G4CS**	TD	8,801' TVD 9,063' MD
FIELD	Natural Buttes	COUNTY Uintah STATE Utah	FINISHED ELEVATION 4,854'
SURFACE LOCATION	SENE 1370 FNL 763 FEL Sec 34 T 9S R 22E		
	Latitude: 39.996003 Longitude: -109.419424		NAD 83
BTM HOLE LOCATION	SWNE 2578 FNL 1821 FEL Sec 34 T 9S R 22E		
	Latitude: 39.992696 Longitude: -109.423200		NAD 83
OBJECTIVE ZONE(S)	Wasatch/Mesaverde		
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.		

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'	14"		
		200'	12-1/4	8-5/8", 28#, IJ-55, LTC	Air mist
			11'	8-5/8", 28#, IJ-55, LTC	Air mist
All water flows encountered while drilling will be reported to the appropriate agencies.					
	Green River @	**1,056'**			
	Top of Birds Nest @	**1,373'**			
	Mahogany @	**1,819'**			
	Preset f/ GL @ 2,270' TVD				
	Note: 11" surface hole will usually be drilled ±400' below the lost circulation zone (aka bird's nest). Drilled depth may be ±200' of the estimated set depth depending on the acutal depth of the loss zone.				
	Wasatch @	**4,230'**			
Mud logging program TBD Cased hole logging program from TD - surf csg			7-7/8"	4-1/2" 11.6# I-80 Ultra DQX/LTC csg	Water / Fresh Water Mud 8.3-12.0 ppg
	Mverde @	**6,555' TVD**			
	Sego @	**8,801' TVD**			
Max anticipated Mud required 12.0 ppg	**TD @**	**8,801' TVD** **9,063' MD**			

RECEIVED: May 07, 2013

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL			WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	LTC	DQX TENSION
CONDUCTOR	14"	0-40'									
								3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0	to	2,270	28.00	IJ-55	LTC	2.38	1.77	6.25	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	1.16		3.11
								7,780	6,350	223,000	267,035
	4-1/2"	5,000	to	9,063'	11.60	I-80	LTC	1.11	1.16	5.79	

Surface Casing:

(Burst Assumptions: TD = 12.0 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.61 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT		YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80		1.15
Option 1			+ 0.25 pps flocele					
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80		1.15
			+ 2% CaCl + 0.25 pps flocele					
SURFACE			**NOTE: If well will circulate water to surface, option 2 will be utilized**					
Option 2	LEAD	1,770'	65/35 Poz + 6% Gel + 10 pps gilsonite	160	35%	11.00		3.82
			+ 0.25 pps Flocele + 3% salt BWOW					
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80		1.15
			+ 0.25 pps flocele					
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80		1.15
PRODUCTION	LEAD	3,723'	Premium Lite II +0.25 pps celloflake + .4% FL-52	290	35%	12.00		3.38
			+ .3% R-3 + .5 lbs/sk Kol-Seal + 6%Bentonite II +					
			1.2% Sodium Metasilicate + .05 lbs/sk Static Free					
	TAIL	5,340'	50/50 Poz/G + 10% salt + .05 lbs/sk Static Free	1,260	35%	14.30		1.31
			+ 1.2% Sodium Metasilicate + .5 % EC-1					
			+.002 gps FP-6L + 2% Bentonite II					

*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:** _____

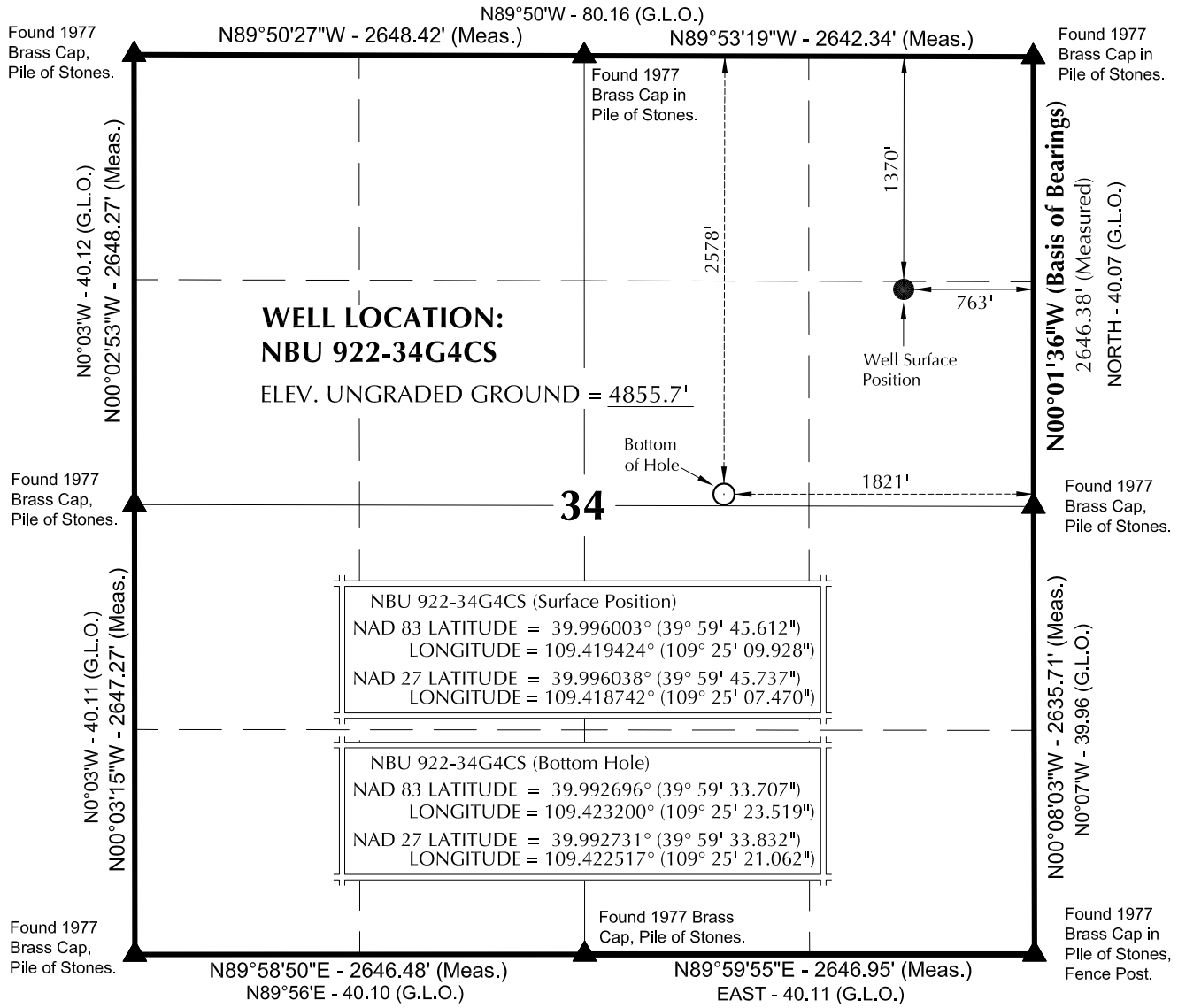
Nick Spence / John Tuckwiller / Brian Cocchiere / Tyler Elliott

DRILLING SUPERINTENDENT: _____ **DATE:** _____

Kenny Gathings / Lovel Young

RECEIVED: May 07, 2013

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 S41°15'32"W 1603.61' 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 $\frac{1}{4}$ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.

N

1000' 500' 0' 1000'

SCALE

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.

7-11-12

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

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 922-34G4CS
WELL PLAT
2578' FNL, 1821' FEL (Bottom Hole)
SW $\frac{1}{4}$ NE $\frac{1}{4}$ OF SECTION 34, T9S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH.

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

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

DATE SURVEYED: 5-14-12	SURVEYED BY: A.F.	SHEET NO: 3
DATE DRAWN: 6-15-12	DRAWN BY: J.G.C.	
SCALE: 1" = 1000'	Date Last Revised: 7-9-12 M.W.W.	3 OF 20

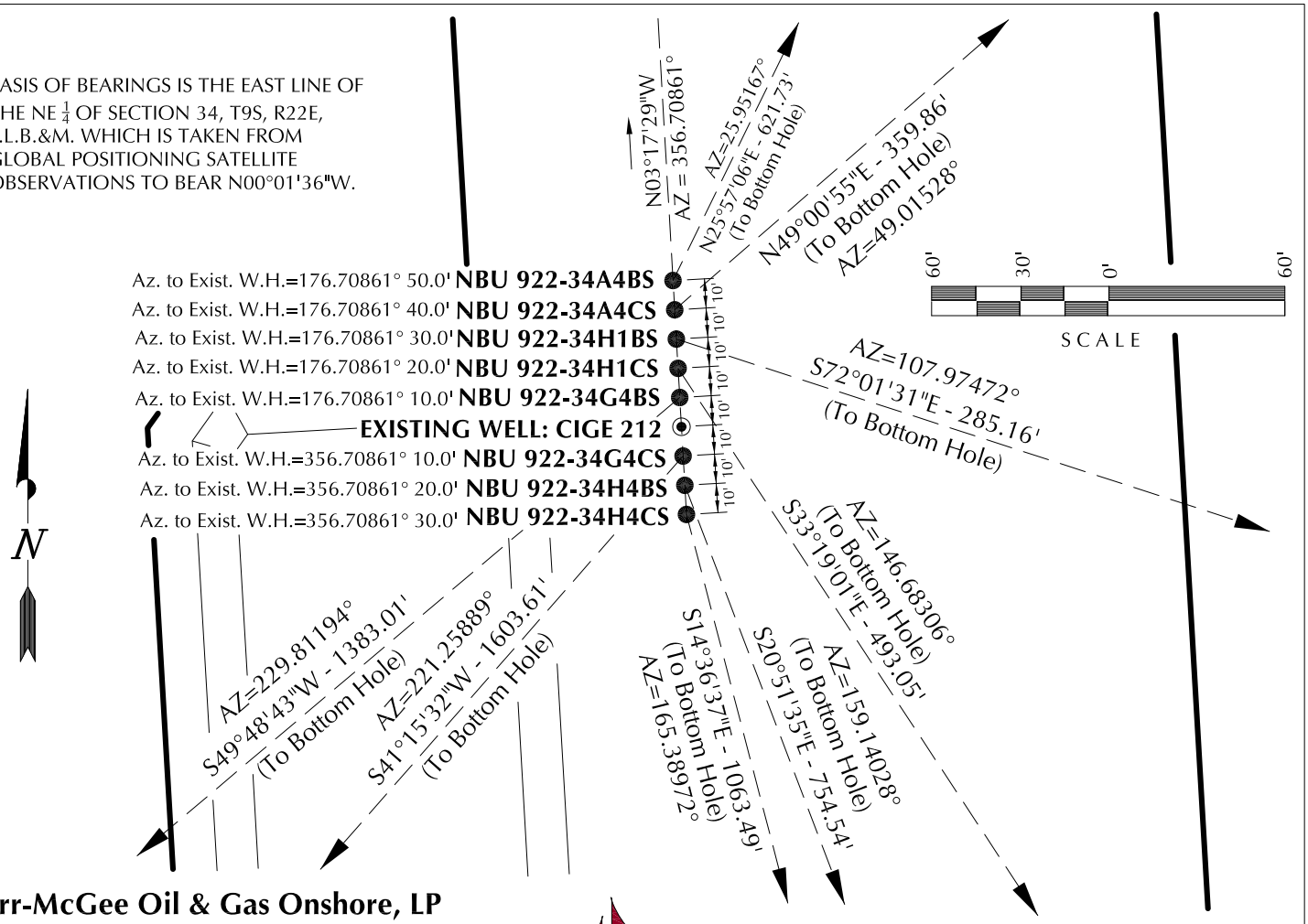
RECEIVED: May 07, 2013

API Well Number: 43047537390000

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27			NAD83		NAD27		
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES
NBU 922-34H4CS	39°59'45.415" 39.995949°	109°25'09.913" 109.419420°	39°59'45.539" 39.995983°	109°25'07.456" 109.418738°	1390' FNL 762' FEL	39°59'35.246" 39.993124°	109°25'06.474" 109.418465°	39°59'35.371" 39.993159°	109°25'04.017" 109.417782°	2419' FNL 494' FEL
NBU 922-34H4BS	39°59'45.513" 39.995976°	109°25'09.920" 109.419422°	39°59'45.638" 39.996011°	109°25'07.463" 109.418740°	1380' FNL 762' FEL	39°59'38.546" 39.994041°	109°25'06.474" 109.418465°	39°59'38.671" 39.994075°	109°25'04.017" 109.417782°	2085' FNL 494' FEL
NBU 922-34G4CS	39°59'45.612" 39.996003°	109°25'09.928" 109.419424°	39°59'45.737" 39.996038°	109°25'07.470" 109.418742°	1370' FNL 763' FEL	39°59'33.707" 39.992696°	109°25'23.519" 109.423200°	39°59'33.832" 39.992731°	109°25'21.062" 109.422517°	2578' FNL 1821' FEL
NBU 922-34G4BS	39°59'45.809" 39.996058°	109°25'09.942" 109.419428°	39°59'45.934" 39.996093°	109°25'07.485" 109.418746°	1350' FNL 764' FEL	39°59'36.997" 39.993610°	109°25'23.519" 109.423200°	39°59'37.122" 39.993645°	109°25'21.062" 109.422517°	2245' FNL 1821' FEL
NBU 922-34H1CS	39°59'45.908" 39.996086°	109°25'09.950" 109.419430°	39°59'46.033" 39.996120°	109°25'07.492" 109.418748°	1341' FNL 765' FEL	39°59'41.836" 39.994954°	109°25'06.473" 109.418465°	39°59'41.961" 39.994989°	109°25'04.016" 109.417782°	1752' FNL 494' FEL
NBU 922-34H1BS	39°59'46.007" 39.996113°	109°25'09.957" 109.419432°	39°59'46.131" 39.996148°	109°25'07.500" 109.418750°	1331' FNL 765' FEL	39°59'45.136" 39.995871°	109°25'06.473" 109.418465°	39°59'45.260" 39.995906°	109°25'04.016" 109.417782°	1418' FNL 494' FEL
NBU 922-34A4CS	39°59'46.105" 39.996140°	109°25'09.964" 109.419434°	39°59'46.230" 39.996175°	109°25'07.507" 109.418752°	1321' FNL 766' FEL	39°59'48.436" 39.996788°	109°25'06.473" 109.418465°	39°59'48.560" 39.996822°	109°25'04.016" 109.417782°	1084' FNL 494' FEL
NBU 922-34A4BS	39°59'46.204" 39.996168°	109°25'09.971" 109.419437°	39°59'46.328" 39.996202°	109°25'07.514" 109.418754°	1311' FNL 766' FEL	39°59'51.726" 39.997702°	109°25'06.473" 109.418465°	39°59'51.850" 39.997736°	109°25'04.016" 109.417782°	751' FNL 494' FEL
CIGE 212	39°59'45.711" 39.996031°	109°25'09.935" 109.419426°	39°59'45.835" 39.996065°	109°25'07.478" 109.418744°	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'
WELL NAME	**NORTH**	**EAST**	**WELL NAME**	**NORTH**	**EAST**	**WELL NAME**	**NORTH**	**EAST**	**WELL NAME**	**NORTH**	**EAST**
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'



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

WELL PAD - NBU 922-34H

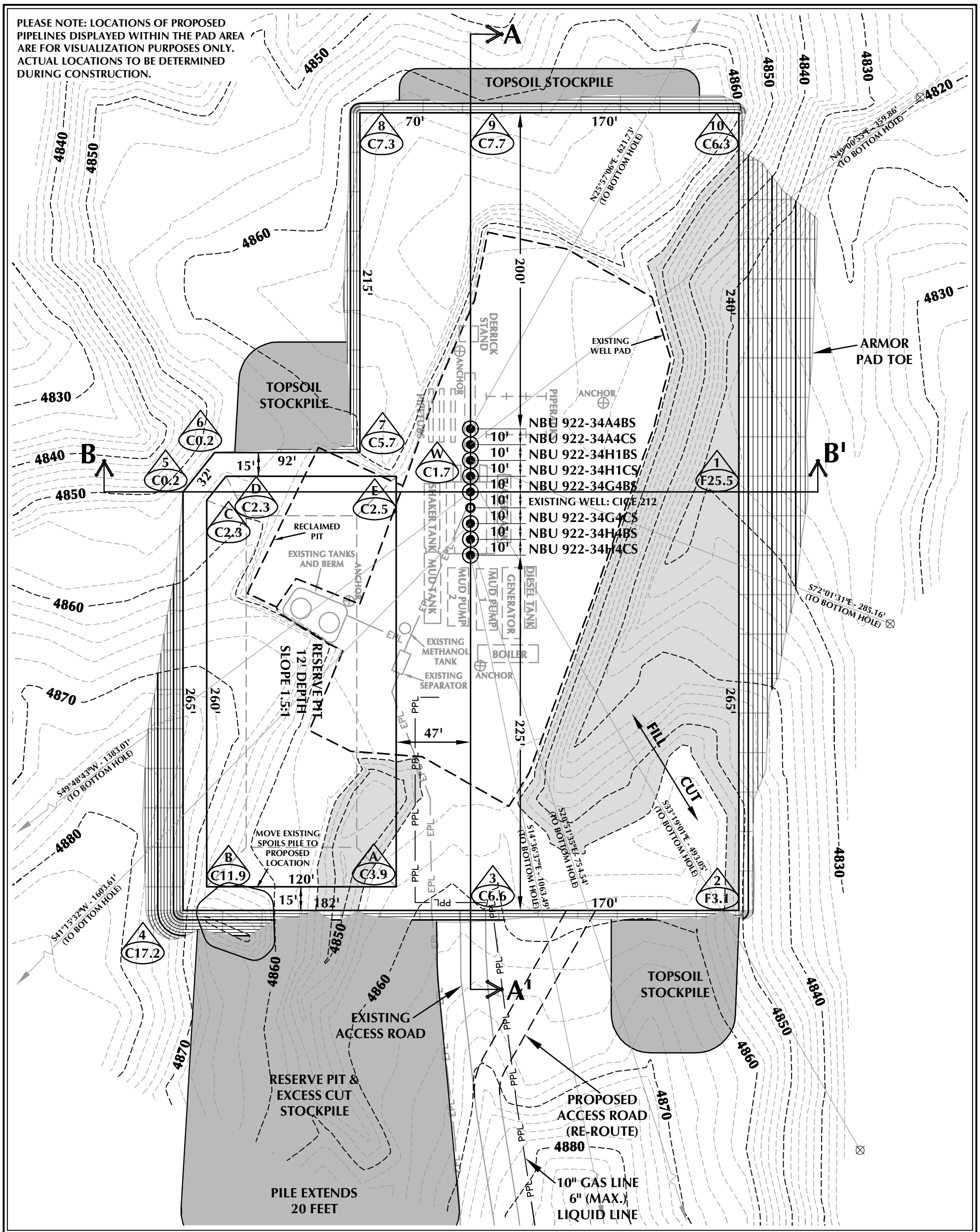
WELL PAD INTERFERENCE PLAT
WELLS - NBU 922-34H4CS, NBU 922-34H4BS, NBU 922-34G4CS, NBU 922-34G4BS, NBU 922-34H1CS, NBU 922-34H1BS, NBU 922-34A4CS & NBU 922-34A4BS
LOCATED IN SECTION 34, T9S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH.

609 CONSULTING, LLC
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: **9**
DATE DRAWN: 6-15-12	DRAWN BY: J.G.C.	
SCALE: 1" = 60'	Date Last Revised: 7-9-12 M.W.W.	9 OF 20

RECEIVED: May 07, 2013



WELL PAD - NBU 922-34H DESIGN SUMMARY

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

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

WELL PAD - NBU 922-34H

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

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

N

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

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

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

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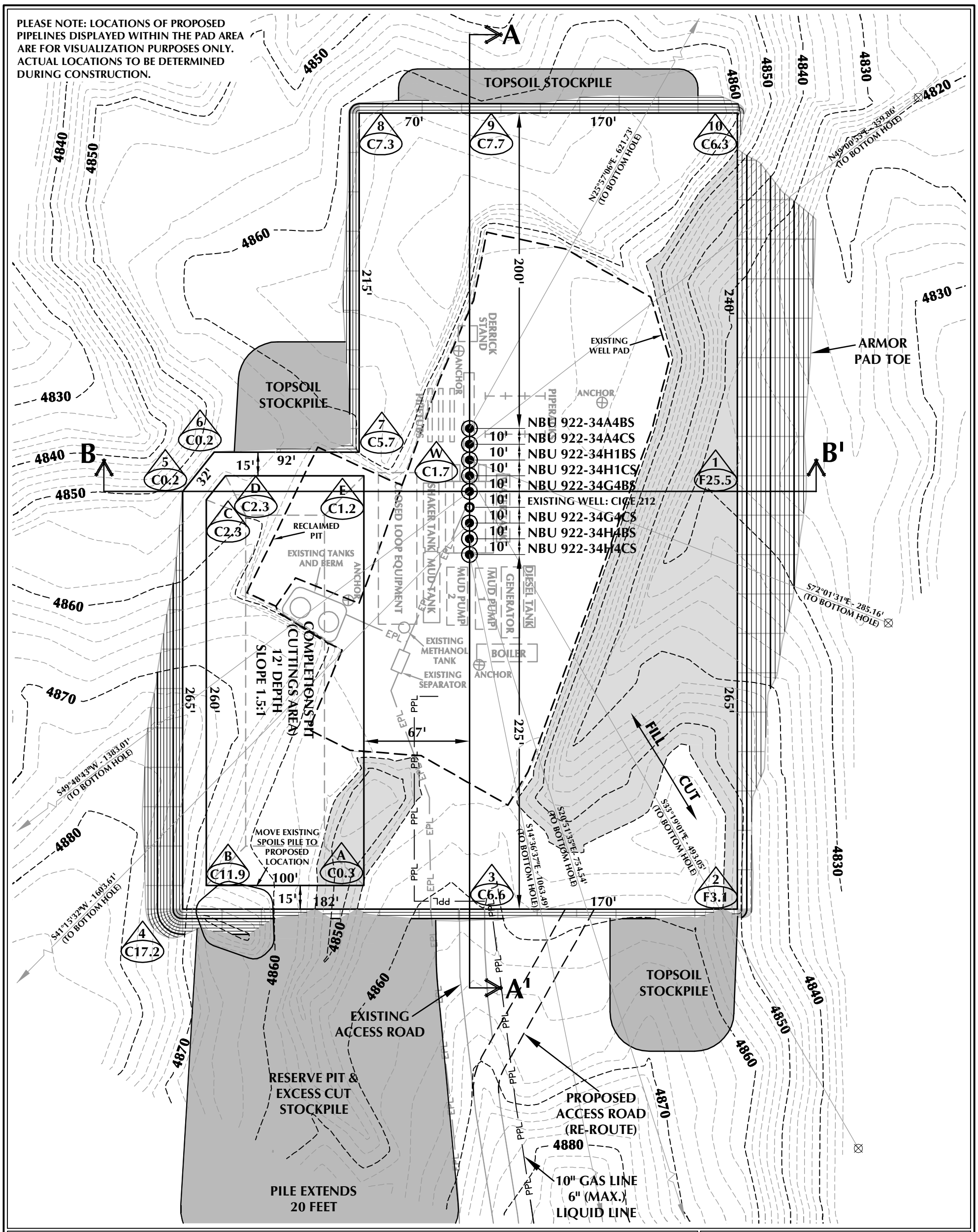
RECEIVED: May 07, 2013



WELL PAD - NBU 922-34H (CLOSED LOOP) DESIGN SUMMARY

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

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

WELL PAD - NBU 922-34H

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

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

WELL PAD QUANTITIES

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

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

N

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

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

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

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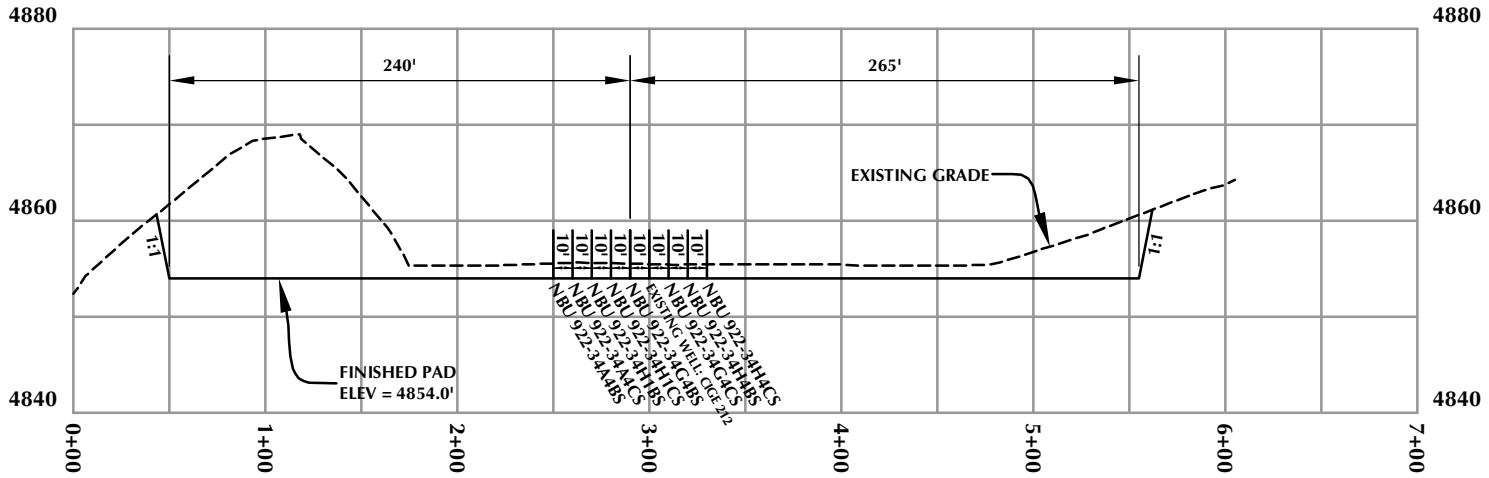
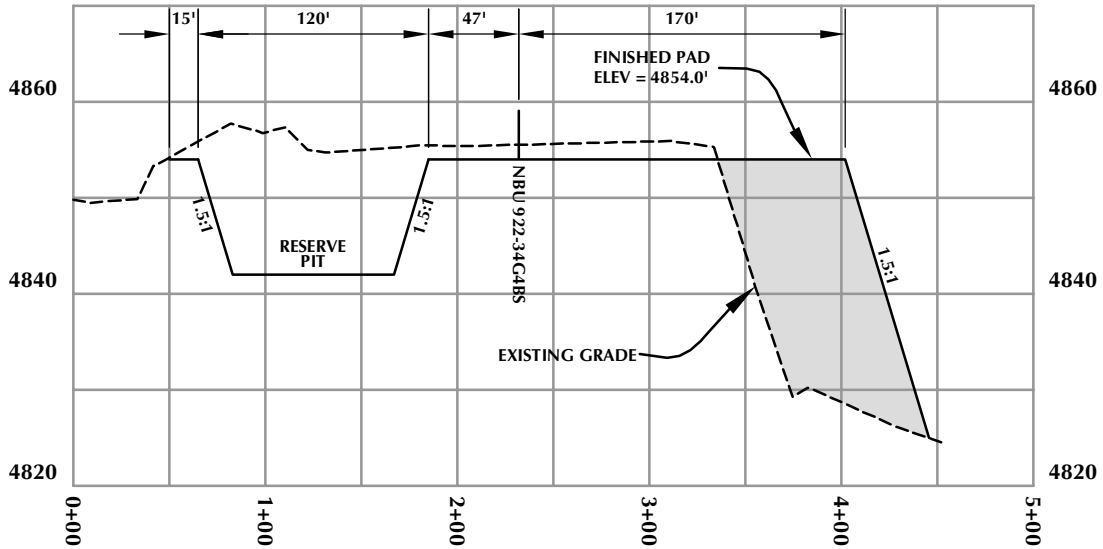


CROSS SECTION A-A'



CROSS SECTION B-B'

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

HORIZONTAL 0 50' 100' 1" = 100'

VERTICAL 0 10' 20' 1" = 20'

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

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

Scale: 1"=100' | Date: 7/10/12 | SHEET NO: 11 11 OF 20
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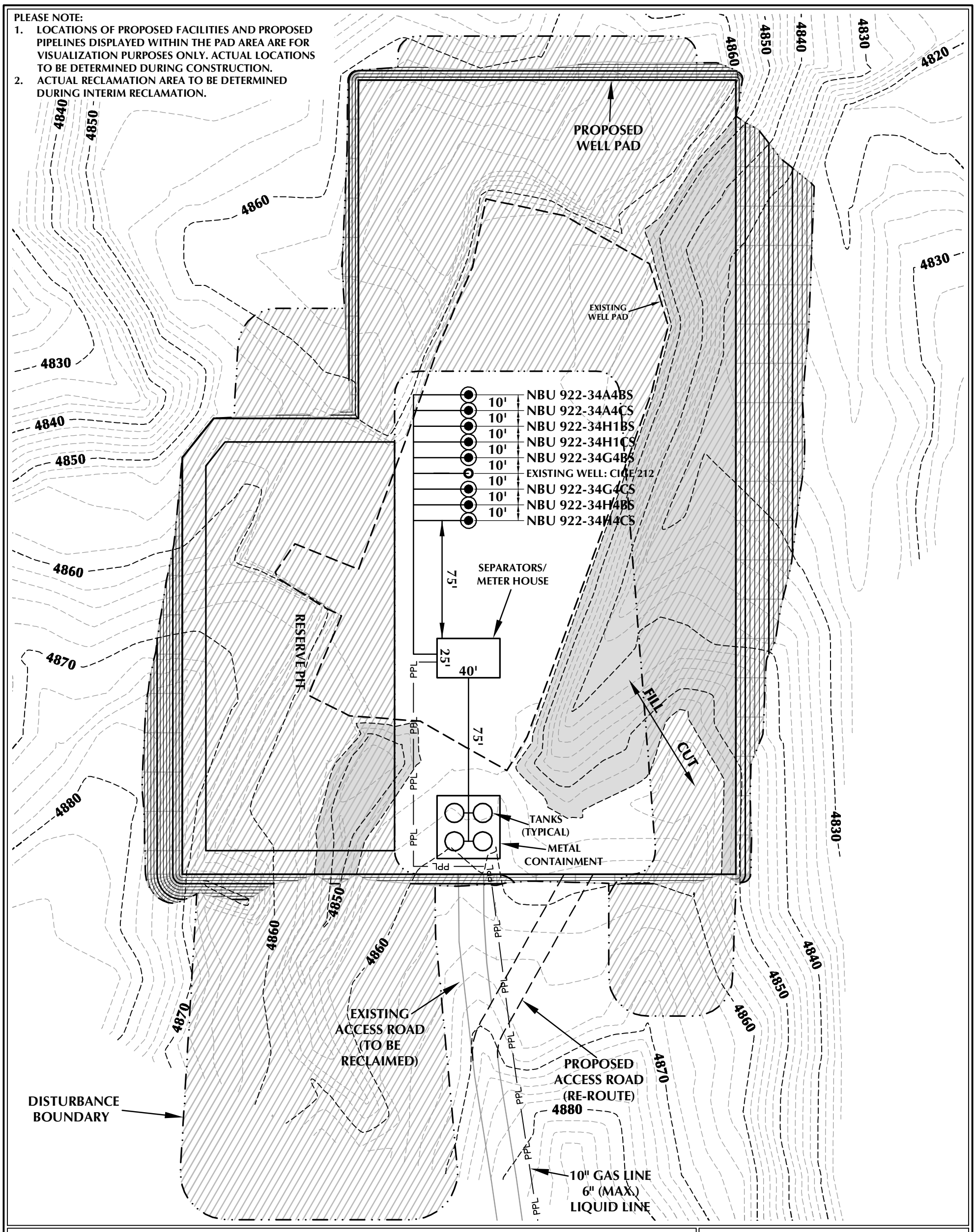
PLEASE NOTE:
1. LOCATIONS OF PROPOSED FACILITIES AND PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.
2. ACTUAL RECLAMATION AREA TO BE DETERMINED DURING INTERIM RECLAMATION.



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

WELL PAD LEGEND

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

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

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

WELL PAD - NBU 922-34H

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

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

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

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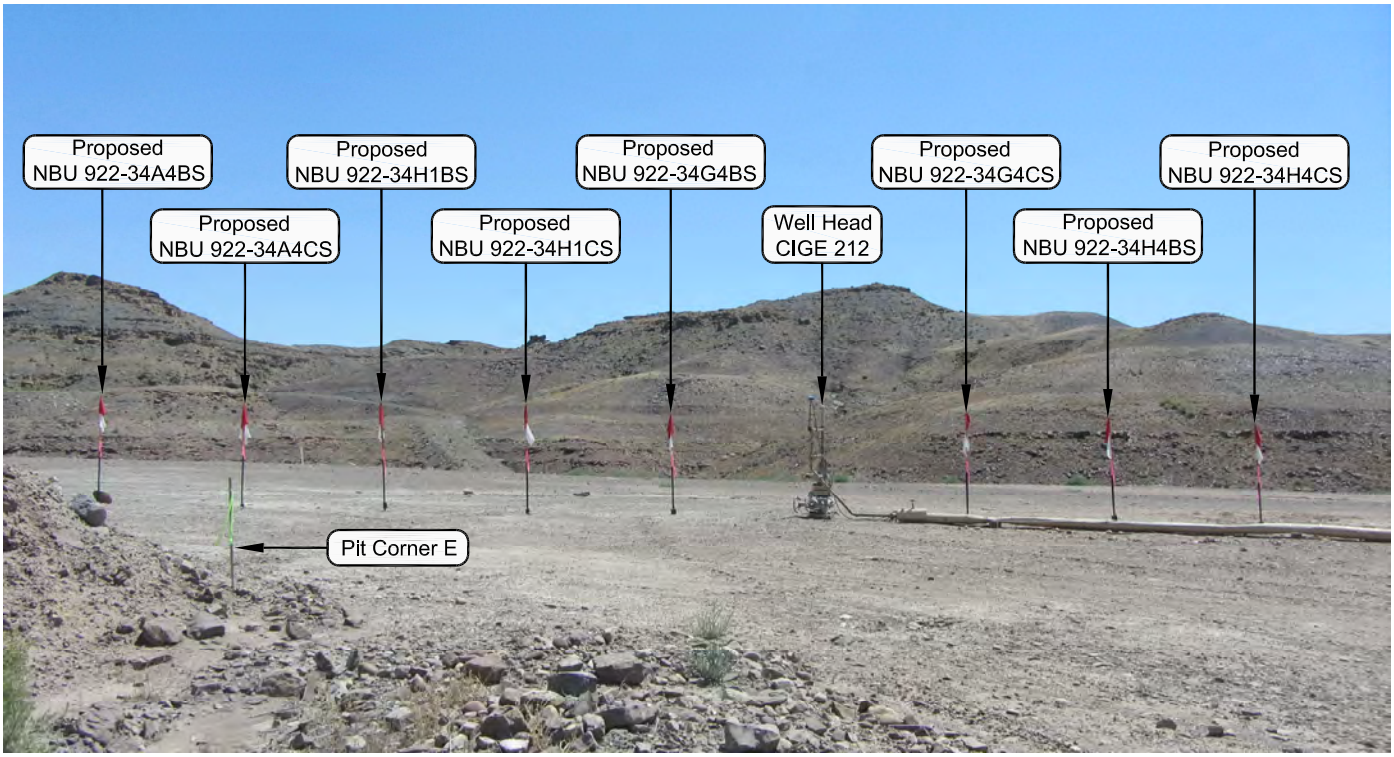

PHOTO VIEW: FROM PIT CORNER E TO LOCATION STAKE **CAMERA ANGLE: EASTERLY**

PHOTO VIEW: FROM EXISTING ACCESS ROAD **CAMERA ANGLE: NORTHERLY**

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

WELL PAD - NBU 922-34H

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

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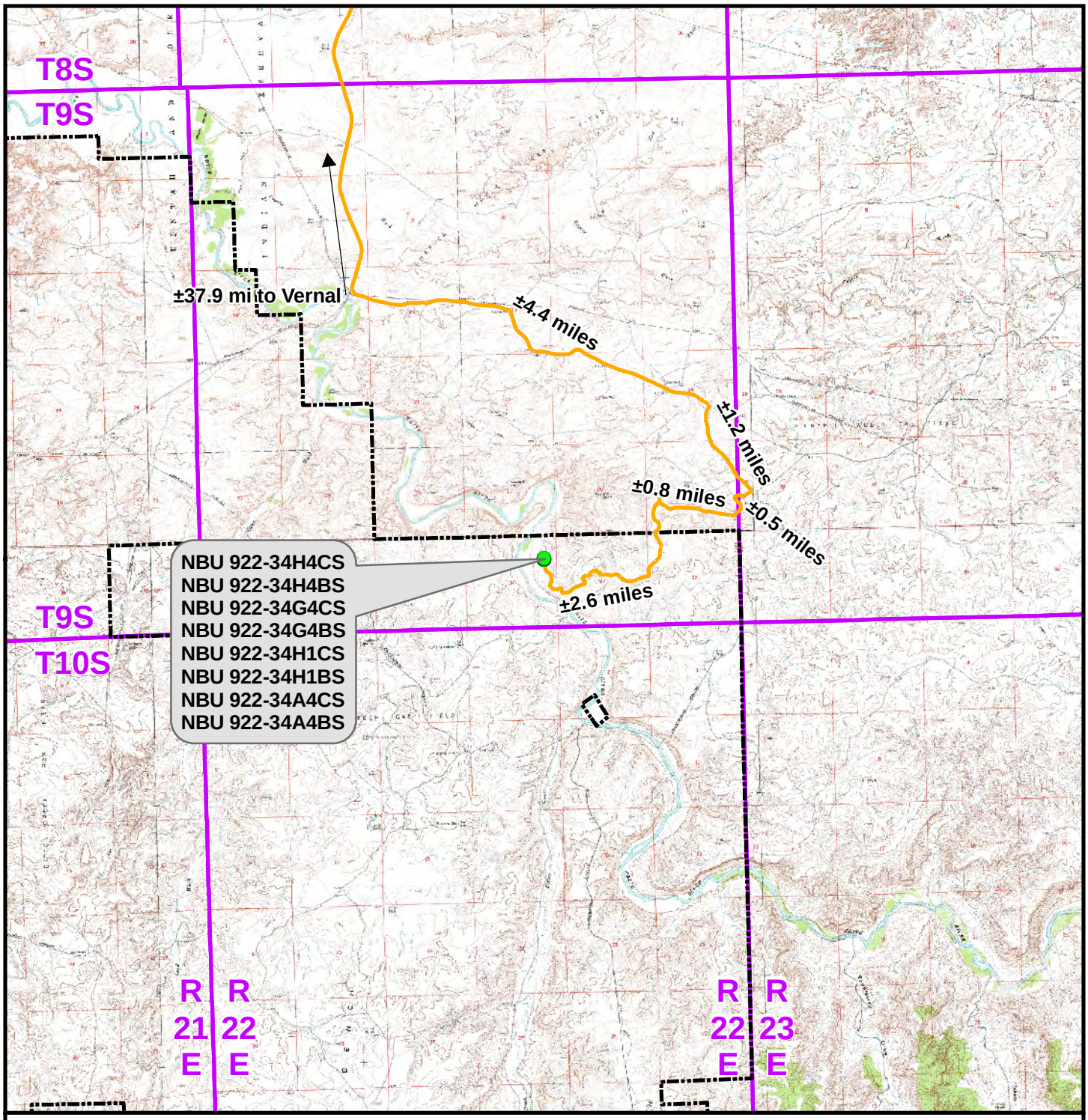
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

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

RECEIVED: May 07, 2013



Legend

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

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

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

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

N

SCALE: 1:100,000	NAD83 USP Central	SHEET NO: 14
DRAWN: TL	DATE: 5 July 2012	14 OF 20
REVISED:	DATE:	

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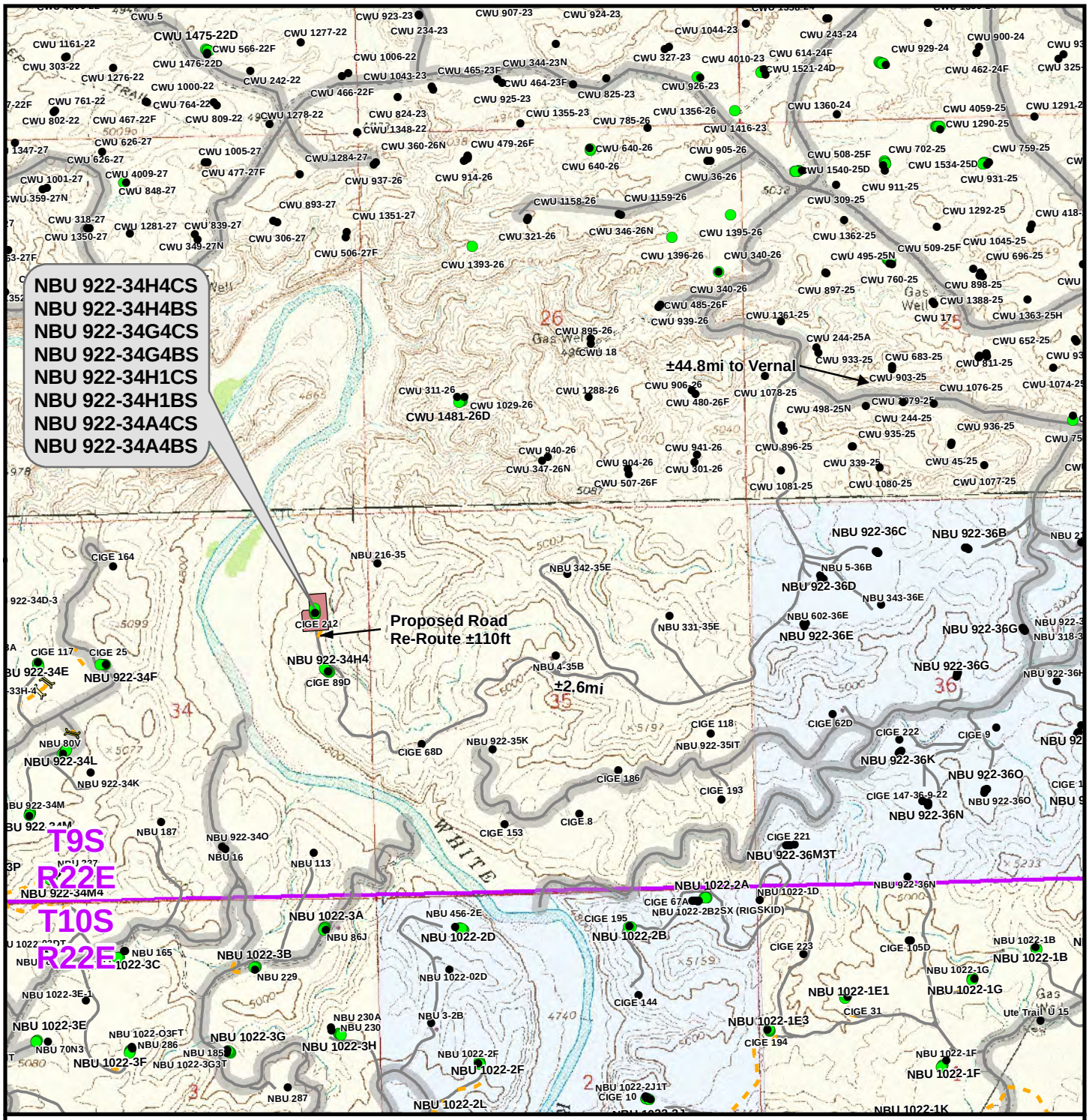
API Well Number: 43047537390000



Legend

Total Proposed Road Re-Route Length: ±110ft

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

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

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	SHEET NO:	
DRAWN: TL	DATE: 5 July 2012	15	
REVISED: TL	DATE: 18 Sept 2012	15 OF 20	

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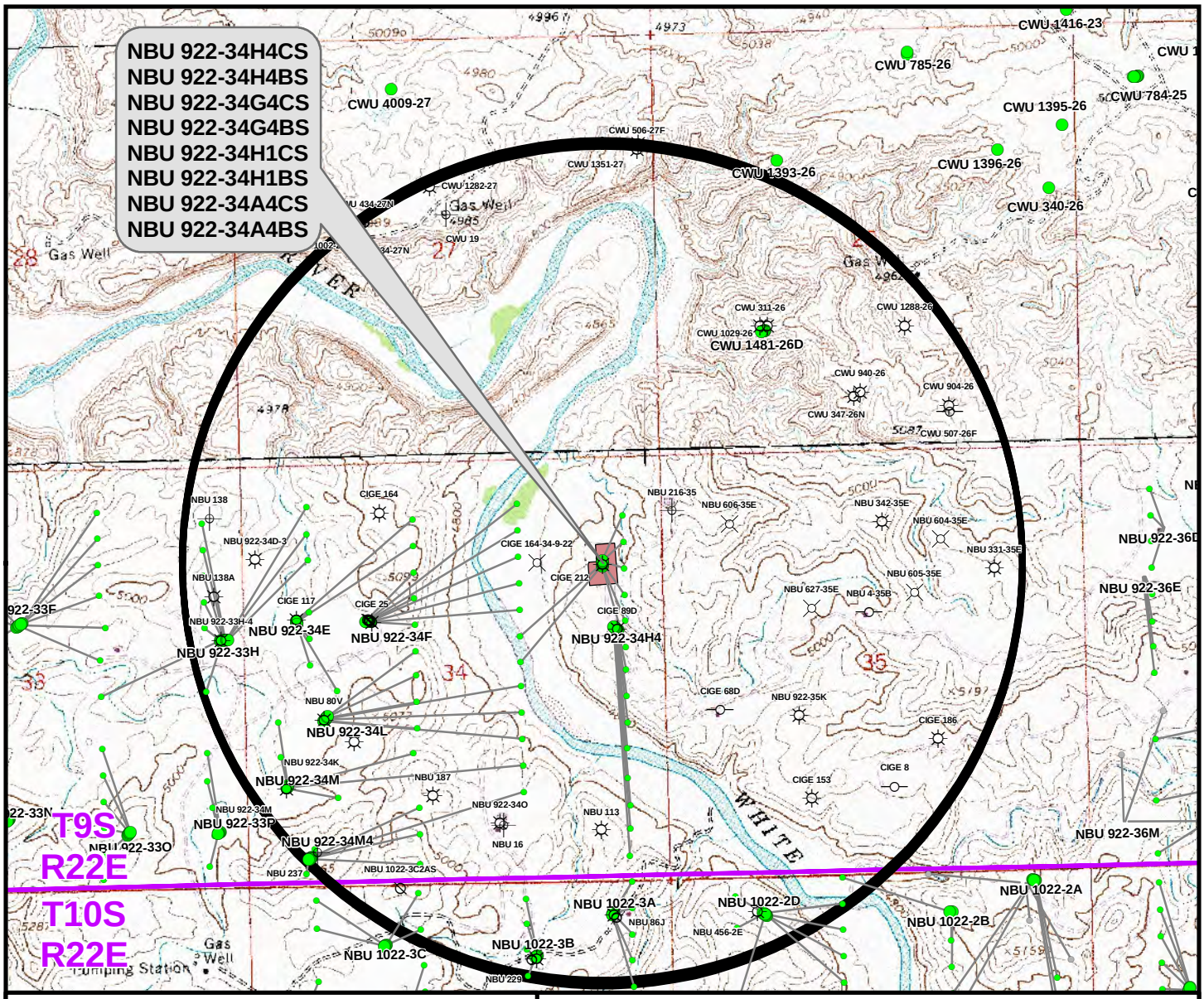
RECEIVED: May 07, 2013

API Well Number: 43047537390000



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

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	SHEET NO: 16
DRAWN: TL	DATE: 18 Sept 2012	16 OF 20
REVISED:	DATE:	

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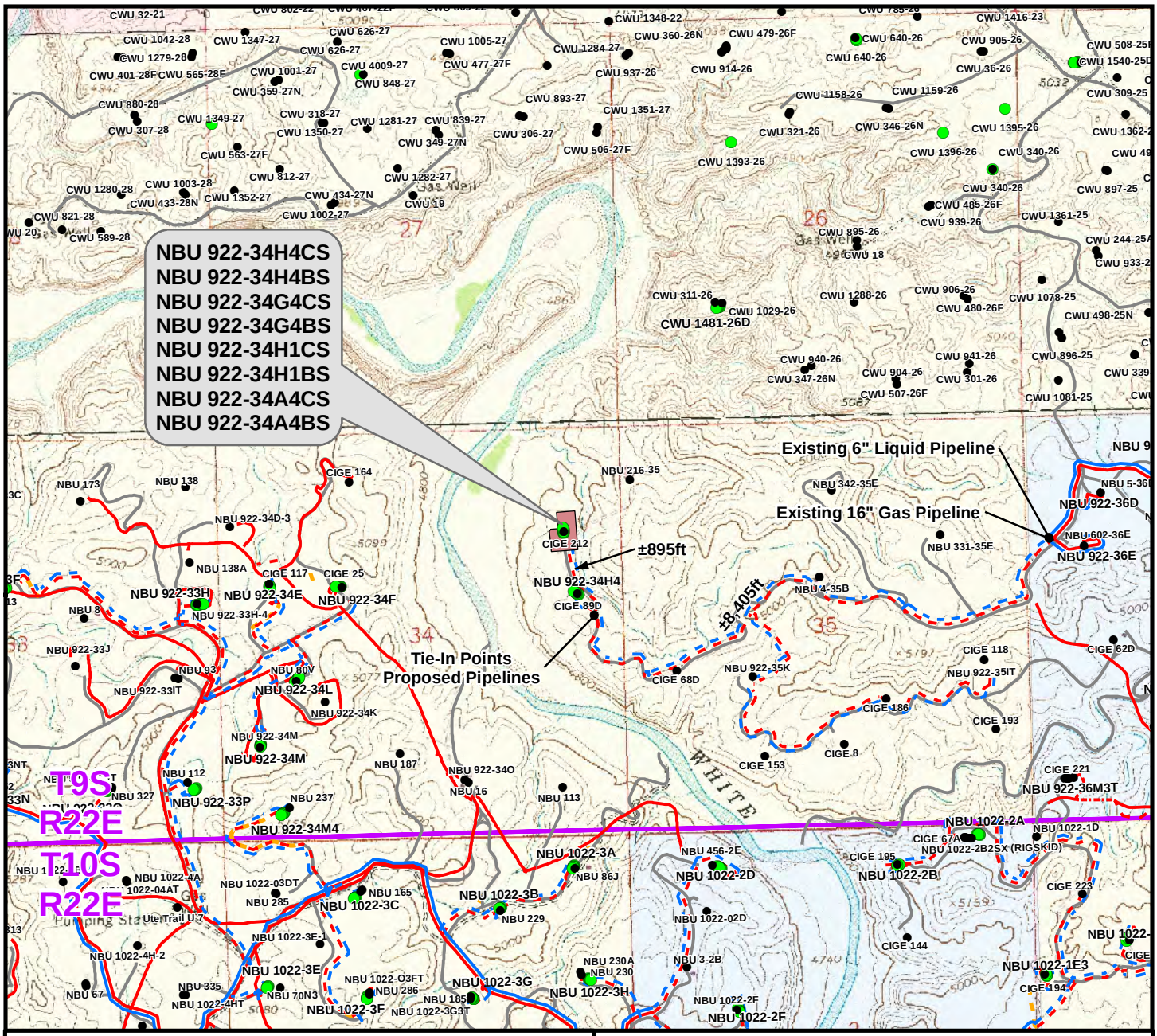
RECEIVED: May 07, 2013

API Well Number: 43047537390000



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	SHEET NO: 17
DRAWN: TL	DATE: 18 Sept 2012	17 OF 20
REVISED:	DATE:	

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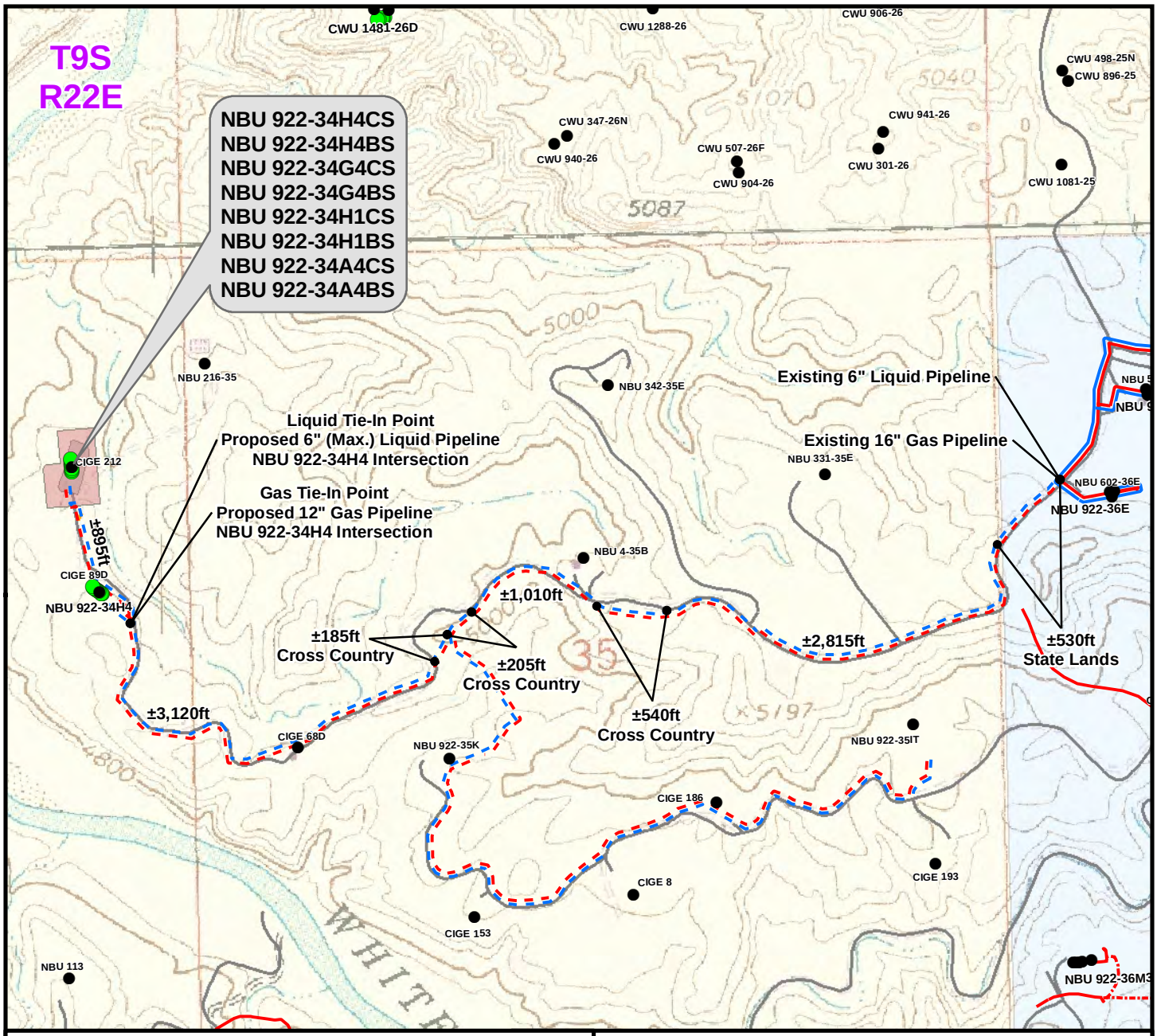
API Well Number: 43047537390000



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.

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Denver, Colorado 80202

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

N

SCALE: 1" = 1,000ft	NAD83 USP Central	SHEET NO:	
DRAWN: TL	DATE: 5 July 2012	18	
REVISED: TL	DATE: 18 Sept 2012	18 OF 20	

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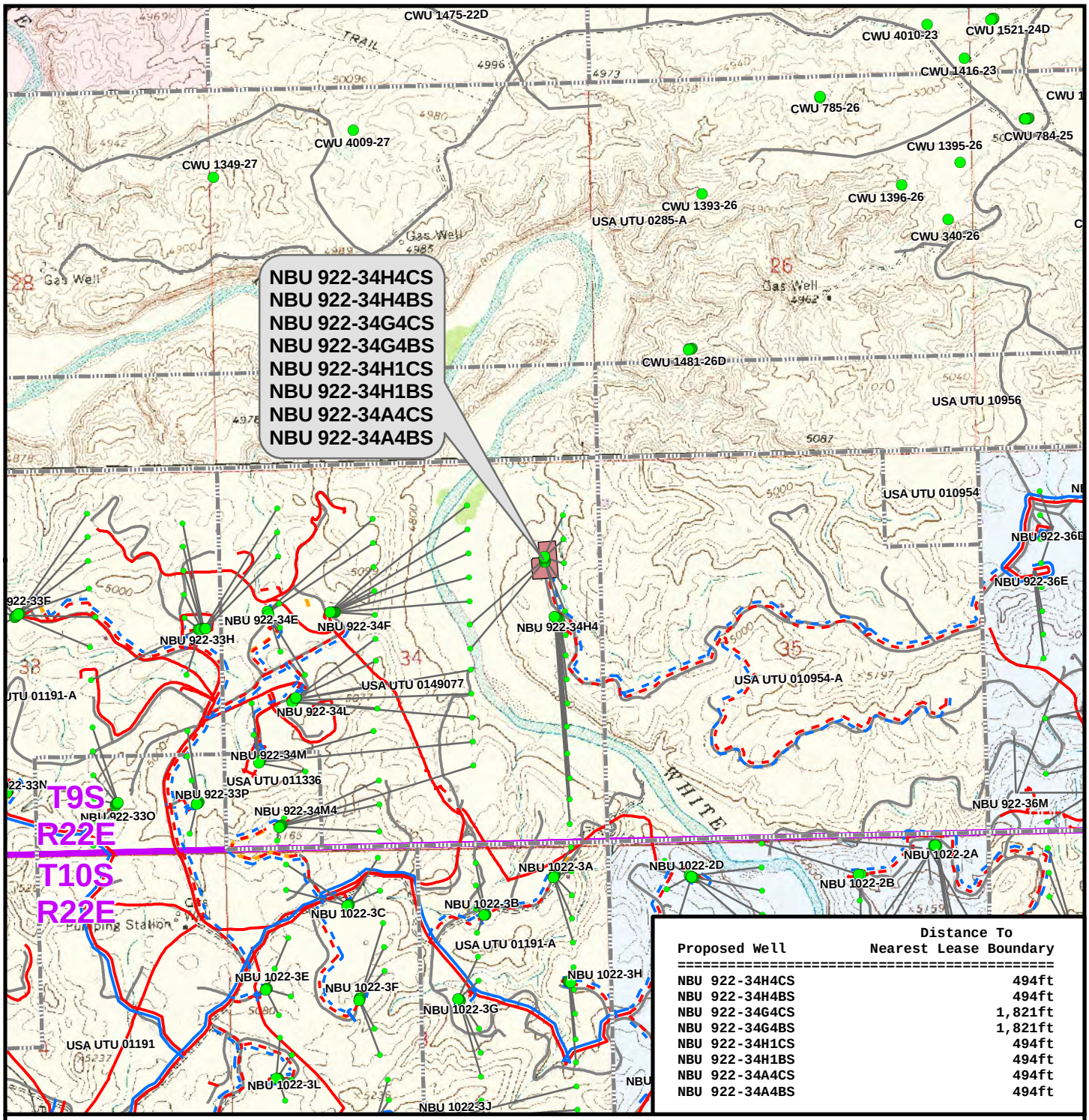
API Well Number: 43047537390000



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
- 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

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

N

SCALE: 1" = 2,000ft	NAD83 USP Central	SHEET NO: 19
DRAWN: TL	DATE: 18 Sept 2012	19 OF 20
REVISED:	DATE:	

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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.

RECEIVED: May 07, 2013

API Well Number: 43047537290000

Scientific Drilling

Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: NBU 922-34H PAD
Well: NBU 922-34G4CS
Wellbore: OH
Design: PLAN #1 PRELIMINARY

Anadarko Petroleum Corporation

T M

Azimuths to True North
Magnetic North: 10.86°

Magnetic Field
Strength: 52197.8snT
Dip Angle: 65.84°
Date: 11/15/2012
Model: IGRF2010

WELL DETAILS: NBU 922-34G4CS

GL 4854 & KB 4 @ 4858.00ft (ASSUMED)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14528530.19	2083296.59	39.996038	-109.418742

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	8801.00	-1204.44	-1057.57	14527307.18	2082260.55	39.992731	-109.422517	Circle (Radius: 25.00)

- plan hits target center

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
1300.00	20.00	221.29	1279.82	-129.82	-113.99	2.00	221.29	172.77	
4976.14	20.00	221.29	4734.26	-1074.61	-943.58	0.00	0.00	1430.08	
5976.14	0.00	0.00	5714.08	-1204.44	-1057.57	2.00	180.00	1602.85	
9063.07	0.00	0.00	8801.00	-1204.44	-1057.57	0.00	0.00	1602.85	PBHL_NBU 922-34G4CS

FORMATION TOP DETAILS

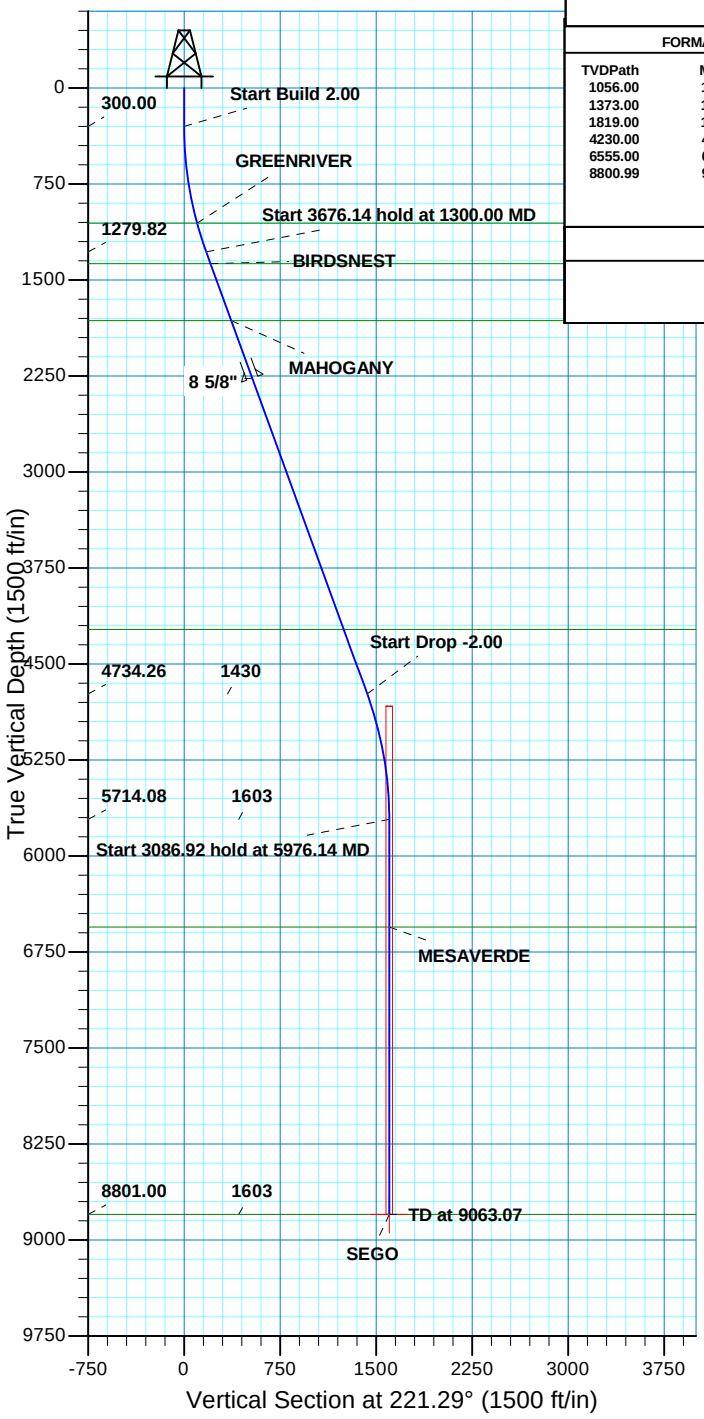
TVDPath	MDPath	Formation
1056.00	1065.06	GREENRIVER
1373.00	1399.16	BIRDSNEST
1819.00	1873.79	MAHOGANY
4230.00	4439.52	WASATCH
6555.00	6817.07	MESAVERDE
8800.99	9063.06	SEGO

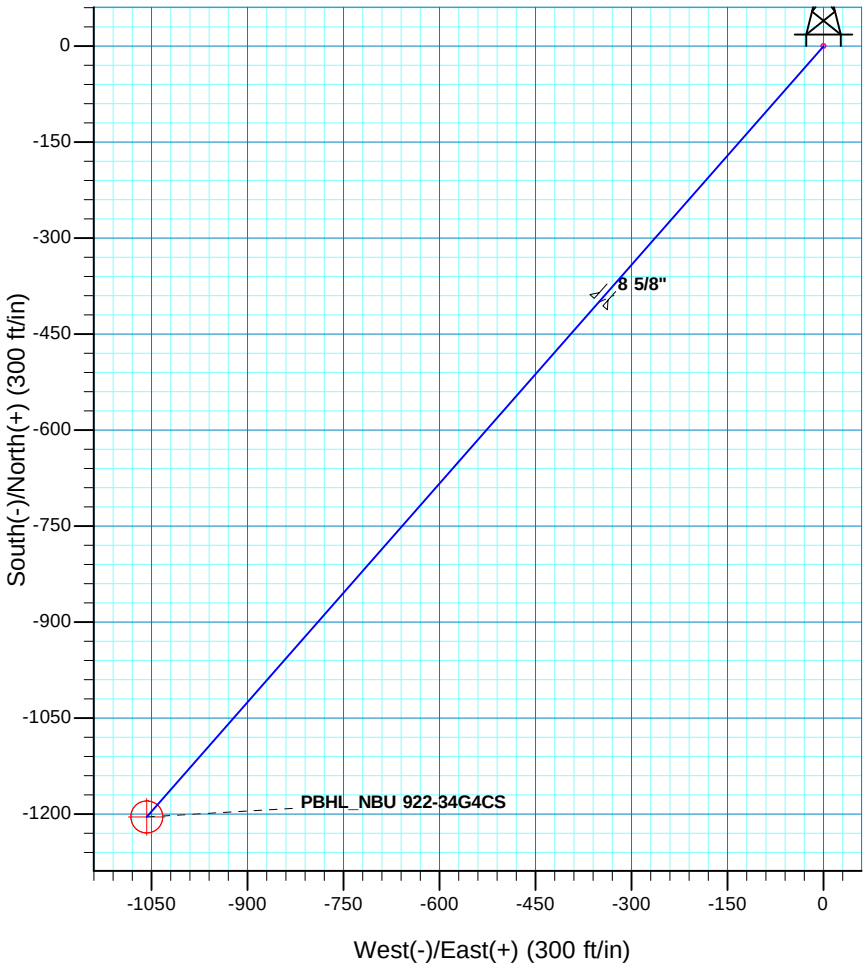
PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N

Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Zone 12N (114 W to 108 W)
0.00 Location: SECTION 34 T9S R22E
System Datum: Mean Sea Level

CASING DETAILS

TVD	MD	Name	Size
2269.00	2352.67	8 5/8"	8.625





Plan: PLAN #1 PRELIMINARY (NBU 922-34G4CS/OH)

Created By: RobertScott Date: 15:59, November 15 2012

RECEI

API Well Number: 43047537390000

Scientific Drilling

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N
NBU 922-34H PAD
NBU 922-34G4CS

OH

Plan: PLAN #1 PRELIMINARY

Standard Planning Report

15 November, 2012

Anadarko Petroleum Corporation

RECEIVED: May 08, 2013

Scientific Drilling

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 922-34G4CS
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 922-34G4CS	**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 922-34G4CS, 1370 FNL 763 FEL

Well Position	**+N/-S**	-59.73 ft	**Northing:**	14,528,530.19 usft	**Latitude:**	39.996038
	+E/-W	3.36 ft	**Easting:**	2,083,296.59 usft	**Longitude:**	-109.418742
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	221.29

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	20.00	221.29	1,279.82	-129.82	-113.99	2.00	2.00	0.00	221.29	
4,976.14	20.00	221.29	4,734.26	-1,074.61	-943.58	0.00	0.00	0.00	0.00	
5,976.14	0.00	0.00	5,714.08	-1,204.44	-1,057.57	2.00	-2.00	0.00	180.00	
9,063.07	0.00	0.00	8,801.00	-1,204.44	-1,057.57	0.00	0.00	0.00	0.00	PBHL_NBU 922-34G

RECEIVED: May 08, 2013

Scientific Drilling

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 922-34G4CS
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 922-34G4CS	**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	221.29	399.98	-1.31	-1.15	1.75	2.00	2.00	0.00
500.00	4.00	221.29	499.84	-5.24	-4.60	6.98	2.00	2.00	0.00
600.00	6.00	221.29	599.45	-11.79	-10.35	15.69	2.00	2.00	0.00
700.00	8.00	221.29	698.70	-20.95	-18.40	27.88	2.00	2.00	0.00
800.00	10.00	221.29	797.47	-32.70	-28.72	43.52	2.00	2.00	0.00
900.00	12.00	221.29	895.62	-47.04	-41.31	62.60	2.00	2.00	0.00
1,000.00	14.00	221.29	993.06	-63.94	-56.15	85.10	2.00	2.00	0.00
1,065.06	15.30	221.29	1,056.00	-76.31	-67.00	101.55	2.00	2.00	0.00
GREENRIVER									
1,100.00	16.00	221.29	1,089.64	-83.39	-73.22	110.98	2.00	2.00	0.00
1,200.00	18.00	221.29	1,185.27	-105.36	-92.51	140.21	2.00	2.00	0.00
1,300.00	20.00	221.29	1,279.82	-129.82	-113.99	172.77	2.00	2.00	0.00
Start 3676.14 hold at 1300.00 MD									
1,399.16	20.00	221.29	1,373.00	-155.31	-136.37	206.68	0.00	0.00	0.00
BIRDSNEST									
1,400.00	20.00	221.29	1,373.78	-155.52	-136.56	206.97	0.00	0.00	0.00
1,500.00	20.00	221.29	1,467.75	-181.22	-159.13	241.17	0.00	0.00	0.00
1,600.00	20.00	221.29	1,561.72	-206.93	-181.69	275.37	0.00	0.00	0.00
1,700.00	20.00	221.29	1,655.69	-232.63	-204.26	309.58	0.00	0.00	0.00
1,800.00	20.00	221.29	1,749.66	-258.33	-226.83	343.78	0.00	0.00	0.00
1,873.79	20.00	221.29	1,819.00	-277.29	-243.48	369.02	0.00	0.00	0.00
MAHOGANY									
1,900.00	20.00	221.29	1,843.63	-284.03	-249.39	377.98	0.00	0.00	0.00
2,000.00	20.00	221.29	1,937.60	-309.73	-271.96	412.18	0.00	0.00	0.00
2,100.00	20.00	221.29	2,031.57	-335.43	-294.53	446.38	0.00	0.00	0.00
2,200.00	20.00	221.29	2,125.54	-361.13	-317.09	480.59	0.00	0.00	0.00
2,300.00	20.00	221.29	2,219.51	-386.83	-339.66	514.79	0.00	0.00	0.00
2,352.67	20.00	221.29	2,269.00	-400.37	-351.55	532.80	0.00	0.00	0.00
8 5/8"									
2,400.00	20.00	221.29	2,313.48	-412.53	-362.23	548.99	0.00	0.00	0.00
2,500.00	20.00	221.29	2,407.45	-438.23	-384.79	583.19	0.00	0.00	0.00
2,600.00	20.00	221.29	2,501.42	-463.93	-407.36	617.39	0.00	0.00	0.00
2,700.00	20.00	221.29	2,595.39	-489.63	-429.93	651.60	0.00	0.00	0.00
2,800.00	20.00	221.29	2,689.35	-515.33	-452.49	685.80	0.00	0.00	0.00
2,900.00	20.00	221.29	2,783.32	-541.03	-475.06	720.00	0.00	0.00	0.00
3,000.00	20.00	221.29	2,877.29	-566.73	-497.63	754.20	0.00	0.00	0.00
3,100.00	20.00	221.29	2,971.26	-592.43	-520.20	788.40	0.00	0.00	0.00
3,200.00	20.00	221.29	3,065.23	-618.13	-542.76	822.61	0.00	0.00	0.00
3,300.00	20.00	221.29	3,159.20	-643.84	-565.33	856.81	0.00	0.00	0.00
3,400.00	20.00	221.29	3,253.17	-669.54	-587.90	891.01	0.00	0.00	0.00
3,500.00	20.00	221.29	3,347.14	-695.24	-610.46	925.21	0.00	0.00	0.00
3,600.00	20.00	221.29	3,441.11	-720.94	-633.03	959.41	0.00	0.00	0.00
3,700.00	20.00	221.29	3,535.08	-746.64	-655.60	993.62	0.00	0.00	0.00
3,800.00	20.00	221.29	3,629.05	-772.34	-678.16	1,027.82	0.00	0.00	0.00
3,900.00	20.00	221.29	3,723.02	-798.04	-700.73	1,062.02	0.00	0.00	0.00
4,000.00	20.00	221.29	3,816.99	-823.74	-723.30	1,096.22	0.00	0.00	0.00
4,100.00	20.00	221.29	3,910.95	-849.44	-745.86	1,130.42	0.00	0.00	0.00
4,200.00	20.00	221.29	4,004.92	-875.14	-768.43	1,164.63	0.00	0.00	0.00

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Scientific Drilling

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 922-34G4CS
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 922-34G4CS	**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)
4,300.00	20.00	221.29	4,098.89	-900.84	-791.00	1,198.83	0.00	0.00	0.00
4,400.00	20.00	221.29	4,192.86	-926.54	-813.56	1,233.03	0.00	0.00	0.00
4,439.52	20.00	221.29	4,230.00	-936.70	-822.48	1,246.55	0.00	0.00	0.00
WASATCH									
4,500.00	20.00	221.29	4,286.83	-952.24	-836.13	1,267.23	0.00	0.00	0.00
4,600.00	20.00	221.29	4,380.80	-977.94	-858.70	1,301.43	0.00	0.00	0.00
4,700.00	20.00	221.29	4,474.77	-1,003.64	-881.26	1,335.64	0.00	0.00	0.00
4,800.00	20.00	221.29	4,568.74	-1,029.34	-903.83	1,369.84	0.00	0.00	0.00
4,900.00	20.00	221.29	4,662.71	-1,055.04	-926.40	1,404.04	0.00	0.00	0.00
4,976.14	20.00	221.29	4,734.26	-1,074.61	-943.58	1,430.08	0.00	0.00	0.00
Start Drop -2.00									
5,000.00	19.52	221.29	4,756.71	-1,080.68	-948.90	1,438.15	2.00	-2.00	0.00
5,100.00	17.52	221.29	4,851.53	-1,104.55	-969.86	1,469.92	2.00	-2.00	0.00
5,200.00	15.52	221.29	4,947.39	-1,125.92	-988.63	1,498.35	2.00	-2.00	0.00
5,300.00	13.52	221.29	5,044.19	-1,144.76	-1,005.17	1,523.43	2.00	-2.00	0.00
5,400.00	11.52	221.29	5,141.81	-1,161.05	-1,019.48	1,545.11	2.00	-2.00	0.00
5,500.00	9.52	221.29	5,240.12	-1,174.77	-1,031.53	1,563.37	2.00	-2.00	0.00
5,600.00	7.52	221.29	5,339.01	-1,185.91	-1,041.30	1,578.19	2.00	-2.00	0.00
5,700.00	5.52	221.29	5,438.36	-1,194.44	-1,048.80	1,589.55	2.00	-2.00	0.00
5,800.00	3.52	221.29	5,538.04	-1,200.37	-1,054.00	1,597.44	2.00	-2.00	0.00
5,900.00	1.52	221.29	5,637.94	-1,203.68	-1,056.91	1,601.84	2.00	-2.00	0.00
5,976.14	0.00	0.00	5,714.08	-1,204.44	-1,057.57	1,602.85	2.00	-2.00	0.00
Start 3086.92 hold at 5976.14 MD									
6,000.00	0.00	0.00	5,737.93	-1,204.44	-1,057.57	1,602.85	0.00	0.00	0.00
6,100.00	0.00	0.00	5,837.93	-1,204.44	-1,057.57	1,602.85	0.00	0.00	0.00
6,200.00	0.00	0.00	5,937.93	-1,204.44	-1,057.57	1,602.85	0.00	0.00	0.00
6,300.00	0.00	0.00	6,037.93	-1,204.44	-1,057.57	1,602.85	0.00	0.00	0.00
6,400.00	0.00	0.00	6,137.93	-1,204.44	-1,057.57	1,602.85	0.00	0.00	0.00
6,500.00	0.00	0.00	6,237.93	-1,204.44	-1,057.57	1,602.85	0.00	0.00	0.00
6,600.00	0.00	0.00	6,337.93	-1,204.44	-1,057.57	1,602.85	0.00	0.00	0.00
6,700.00	0.00	0.00	6,437.93	-1,204.44	-1,057.57	1,602.85	0.00	0.00	0.00
6,800.00	0.00	0.00	6,537.93	-1,204.44	-1,057.57	1,602.85	0.00	0.00	0.00
6,817.07	0.00	0.00	6,555.00	-1,204.44	-1,057.57	1,602.85	0.00	0.00	0.00
MESAVERDE									
6,900.00	0.00	0.00	6,637.93	-1,204.44	-1,057.57	1,602.85	0.00	0.00	0.00
7,000.00	0.00	0.00	6,737.93	-1,204.44	-1,057.57	1,602.85	0.00	0.00	0.00
7,100.00	0.00	0.00	6,837.93	-1,204.44	-1,057.57	1,602.85	0.00	0.00	0.00
7,200.00	0.00	0.00	6,937.93	-1,204.44	-1,057.57	1,602.85	0.00	0.00	0.00
7,300.00	0.00	0.00	7,037.93	-1,204.44	-1,057.57	1,602.85	0.00	0.00	0.00
7,400.00	0.00	0.00	7,137.93	-1,204.44	-1,057.57	1,602.85	0.00	0.00	0.00
7,500.00	0.00	0.00	7,237.93	-1,204.44	-1,057.57	1,602.85	0.00	0.00	0.00
7,600.00	0.00	0.00	7,337.93	-1,204.44	-1,057.57	1,602.85	0.00	0.00	0.00
7,700.00	0.00	0.00	7,437.93	-1,204.44	-1,057.57	1,602.85	0.00	0.00	0.00
7,800.00	0.00	0.00	7,537.93	-1,204.44	-1,057.57	1,602.85	0.00	0.00	0.00
7,900.00	0.00	0.00	7,637.93	-1,204.44	-1,057.57	1,602.85	0.00	0.00	0.00
8,000.00	0.00	0.00	7,737.93	-1,204.44	-1,057.57	1,602.85	0.00	0.00	0.00
8,100.00	0.00	0.00	7,837.93	-1,204.44	-1,057.57	1,602.85	0.00	0.00	0.00
8,200.00	0.00	0.00	7,937.93	-1,204.44	-1,057.57	1,602.85	0.00	0.00	0.00
8,300.00	0.00	0.00	8,037.93	-1,204.44	-1,057.57	1,602.85	0.00	0.00	0.00
8,400.00	0.00	0.00	8,137.93	-1,204.44	-1,057.57	1,602.85	0.00	0.00	0.00
8,500.00	0.00	0.00	8,237.93	-1,204.44	-1,057.57	1,602.85	0.00	0.00	0.00
8,600.00	0.00	0.00	8,337.93	-1,204.44	-1,057.57	1,602.85	0.00	0.00	0.00
8,700.00	0.00	0.00	8,437.93	-1,204.44	-1,057.57	1,602.85	0.00	0.00	0.00

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Scientific Drilling

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 922-34G4CS
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 922-34G4CS	**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	8,537.93	-1,204.44	-1,057.57	1,602.85	0.00	0.00	0.00
8,900.00	0.00	0.00	8,637.93	-1,204.44	-1,057.57	1,602.85	0.00	0.00	0.00
9,000.00	0.00	0.00	8,737.93	-1,204.44	-1,057.57	1,602.85	0.00	0.00	0.00
9,063.06	0.00	0.00	8,800.99	-1,204.44	-1,057.57	1,602.85	0.00	0.00	0.00
SEGO									
9,063.07	0.00	0.00	8,801.00	-1,204.44	-1,057.57	1,602.85	0.00	0.00	0.00
TD at 9063.07 - PBHL_NBU 922-34G4CS									

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 922-34G4C - plan hits target center - Circle (radius 25.00)	0.00	0.00	8,801.00	-1,204.44	-1,057.57	14,527,307.19	2,082,260.55	39.992731	-109.422517

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,352.67	2,269.00	8 5/8"	8.625	11.000

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,065.06	1,056.00	GREENRIVER			
1,399.16	1,373.00	BIRDSNEST			
1,873.79	1,819.00	MAHOGANY			
4,439.52	4,230.00	WASATCH			
6,817.07	6,555.00	MESAVERDE			
9,063.06	8,800.99	SEGO		0.00	

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
300.00	300.00	0.00	0.00	Start Build 2.00
1,300.00	1,279.82	-129.82	-113.99	Start 3676.14 hold at 1300.00 MD
4,976.14	4,734.26	-1,074.61	-943.58	Start Drop -2.00
5,976.14	5,714.08	-1,204.44	-1,057.57	Start 3086.92 hold at 5976.14 MD
9,063.07	8,801.00	-1,204.44	-1,057.57	TD at 9063.07

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

NBU 922-34H PAD

API #		NBU 922-34A4BS	
	Surface:	1311 FNL / 766 FEL	NENE
	BHL:	751 FNL / 494 FEL	NENE

API #		NBU 922-34A4CS	
	Surface:	1321 FNL / 766 FEL	NENE
	BHL:	1084 FNL / 494 FEL	NENE

API #		NBU 922-34G4BS	
	Surface:	1350 FNL / 764 FEL	SENE
	BHL:	2245 FNL / 1821 FEL	SWNE

API #		NBU 922-34G4CS	
	Surface:	1370 FNL / 763 FEL	SENE
	BHL:	2578 FNL / 1821 FEL	SWNE

API #		NBU 922-34H1BS	
	Surface:	1331 FNL / 765 FEL	SENE
	BHL:	1418 FNL / 494 FEL	SENE

API #		NBU 922-34H1CS	
	Surface:	1341 FNL / 765 FEL	SENE
	BHL:	1752 FNL / 494 FEL	SENE

API #		NBU 922-34H4BS	
	Surface:	1380 FNL / 762 FEL	SENE
	BHL:	2085 FNL / 494 FEL	SENE

API #		NBU 922-34H4CS	
	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.

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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.

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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.

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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.

RECEIVED: May 08, 2013

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.

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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.

RECEIVED: May 08, 2013

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.

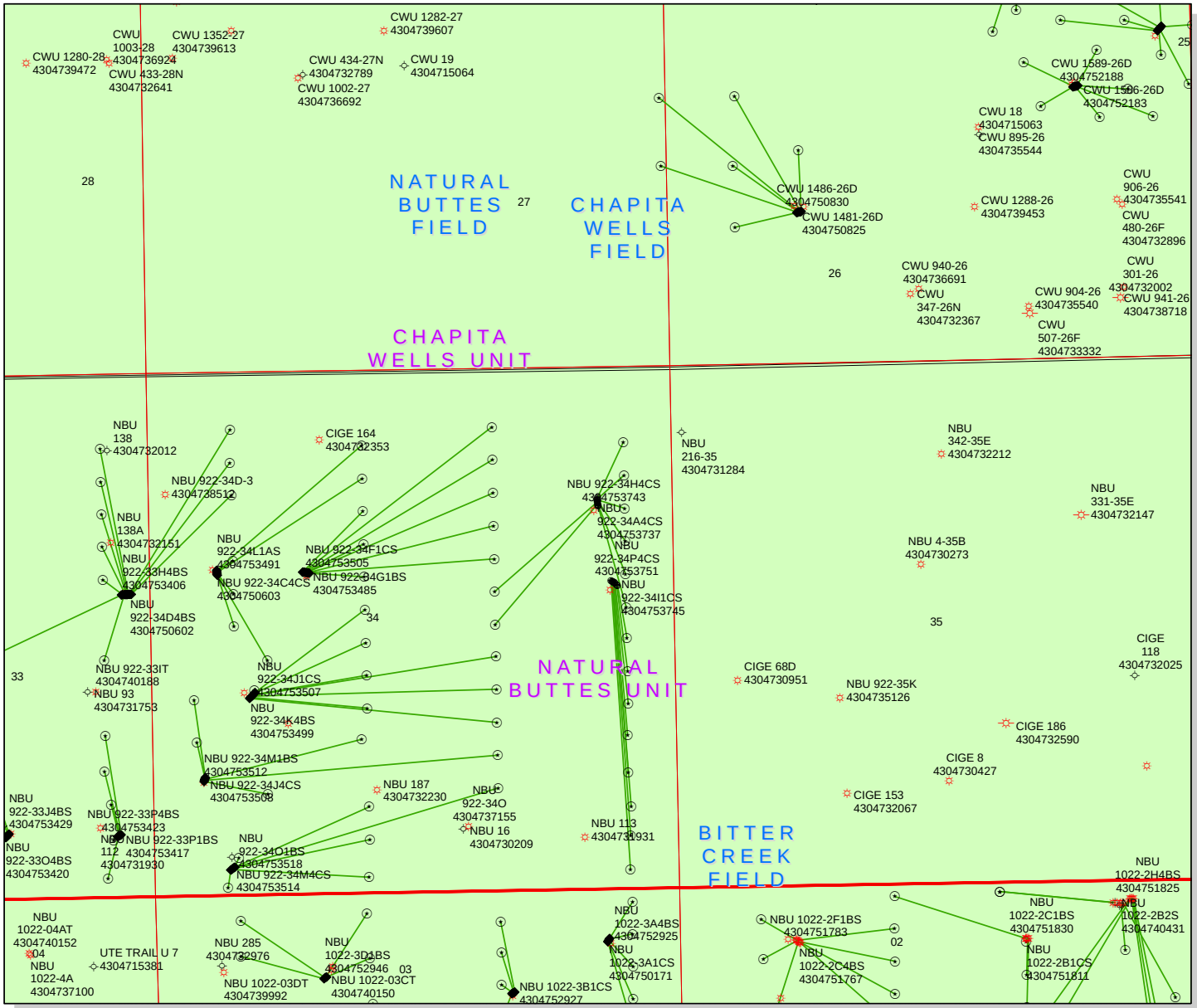
Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

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 Well Number: 43047537390000



API Number: 4304753739

Well Name: NBU 922-34G4CS

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

STATUS

- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Fields

STATUS

- Unknown
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- STORAGE
- TERMINATED

1,300 650 0 1,300 Feet

1:12,500

RECEIVED: May 10, 2013

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 -06'00'

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

MCoulthard:mc:5-20-13

RECEIVED: May 22, 2013

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 5/8/2013
API NO. ASSIGNED: 43047537390000
WELL NAME: NBU 922-34G4CS
OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995)
PHONE NUMBER: 720 929-6086
CONTACT: Gina Becker

PROPOSED LOCATION: SENE 34 090S 220E
Permit Tech Review: ✔

SURFACE: 1370 FNL 0763 FEL
Engineering Review: ✔

BOTTOM: 2578 FNL 1821 FEL
Geology Review: ✔

COUNTY: UINTAH
LATITUDE: 39.99596
LONGITUDE: -109.41939
UTM SURF EASTINGS: 634931.00
NORTHINGS: 4428505.00
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

RECEIVED: May 22, 2013

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 922-34G4CS
API Well Number: 43047537390000
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

FORM 9

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

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 922-34G4CS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047537390000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6100 EXT

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1370 FNL 0763 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE 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		
✓ NOTICE OF INTENT Approximate date work will start: 5/22/2014	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	✓ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

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

Approved by the Utah Division of Oil, Gas and Mining

Date: March 10, 2014

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Teena Paulo	720 929-6236	Staff Regulatory Specialist

SIGNATURE	DATE
N/A	3/6/2014

RECEIVED: Mar. 06, 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 43047537390000

API: 43047537390000
Well Name: NBU 922-34G4CS
Location: 1370 FNL 0763 FEL QTR SENE SEC 34 TWNP 090S RNG 220E MER S
Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.
Date Original Permit Issued: 5/22/2013

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

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

Signature: Teena Paulo **Date:** 3/6/2014
Title: Staff Regulatory Specialist **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

RECEIVED: Mar. 06, 2014

Form 3160-3
(August 2007)

RECEIVED

FEB 2 8 2013

BLM

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
UTU0149077

6. If Indian, Allottee or Tribe Name

1a. Type of Work: ☒ DRILL ☐ REENTER

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

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

8. Lease Name and Well No.
NBU 922-34G4CS

2. Name of Operator
KERR-MCGEE OIL & GAS ONSHORE LP
Contact: GINA T BECKER
Email: GINA.BECKER@ANADARKO.COM

9. API Well No.
43 047 53739

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

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

10. Field and Pool, or Exploratory
NATURAL BUTTES

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

At surface SENE 1370FNL 763FEL 39.996003 N Lat, 109.419424 W Lon

At proposed prod. zone SWNE 2578FNL 1821FEL 39.992696 N Lat, 109.423200 W Lon

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

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

12. County or Parish
UINTAH

13. State
UT

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)
1821

16. No. of Acres in Lease
600.00

17. Spacing Unit dedicated to this well

18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.
1285

19. Proposed Depth
9063 MD
8801 TVD

20. BLM/BIA Bond No. on file
WYB000291

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

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

23. Estimated duration
60-90 DAYS

RECEIVED
MAY 1 2 2014
DIV. OF OIL, GAS & MINING

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.
2. A Drilling Plan.
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).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
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 #200135 verified by the BLM Well Information System
For KERR-MCGEE OIL & GAS ONSHORE, sent to the Vernal
Submitted 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:**	SENE, Sec. 34, T9S, R22E
Well No:	NBU 922-34G4CS	**Lease No:**	UTU-0149077
API No:	43-047-53739	**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).

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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

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 922-34G4CS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047537390000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6100 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1370 FNL 0763 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE 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

- ✓ NOTICE OF INTENT — Approximate date work will start: 3/26/2015
- ☐ SUBSEQUENT REPORT — Date of Work Completion:
- ☐ SPUD REPORT — Date of Spud:
- ☐ DRILLING REPORT — Report Date:

TYPE OF ACTION

☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	✓ APD EXTENSION
☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

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

Approved by the Utah Division of Oil, Gas and Mining
March 30, 2015
Date:
By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Joel Malefyt	720 929-6828	Regualtory Analyst

SIGNATURE	DATE
N/A	3/26/2015

RECEIVED: Mar. 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 43047537390000

API: 43047537390000
Well Name: NBU 922-34G4CS
Location: 1370 FNL 0763 FEL QTR SENE SEC 34 TWNP 090S RNG 220E MER S
Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.
Date Original Permit Issued: 5/22/2013

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

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

Signature: Joel Malefyt **Date:** 3/26/2015
Title: Regualtory Analyst **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

RECEIVED: Mar. 26, 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

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7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

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8. WELL NAME and NUMBER: NBU 922-34G4CS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

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3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6100

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1370 FNL 0763 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE 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		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
✓ SPUD REPORT Date of Spud: 7/11/2015	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

Spud well 07/11/2015 @ 12:00. Drill 24" conductor hole to 40', run 14" X .250 wall conductor pipe, cement with 81 sacks ready mix.
Anticipated surface spud date and surface casing cement 07/25/2015.

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

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Doreen Green	435 781-9758	Regulatory Analyst II

SIGNATURE	DATE
N/A	7/13/2015

RECEIVED: Jul. 13, 2015

FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0149077

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2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047537390000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6100 EXT

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1345 FNL 0764 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE 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		
✓ NOTICE OF INTENT Approximate date work will start: 8/28/2015	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	✓ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

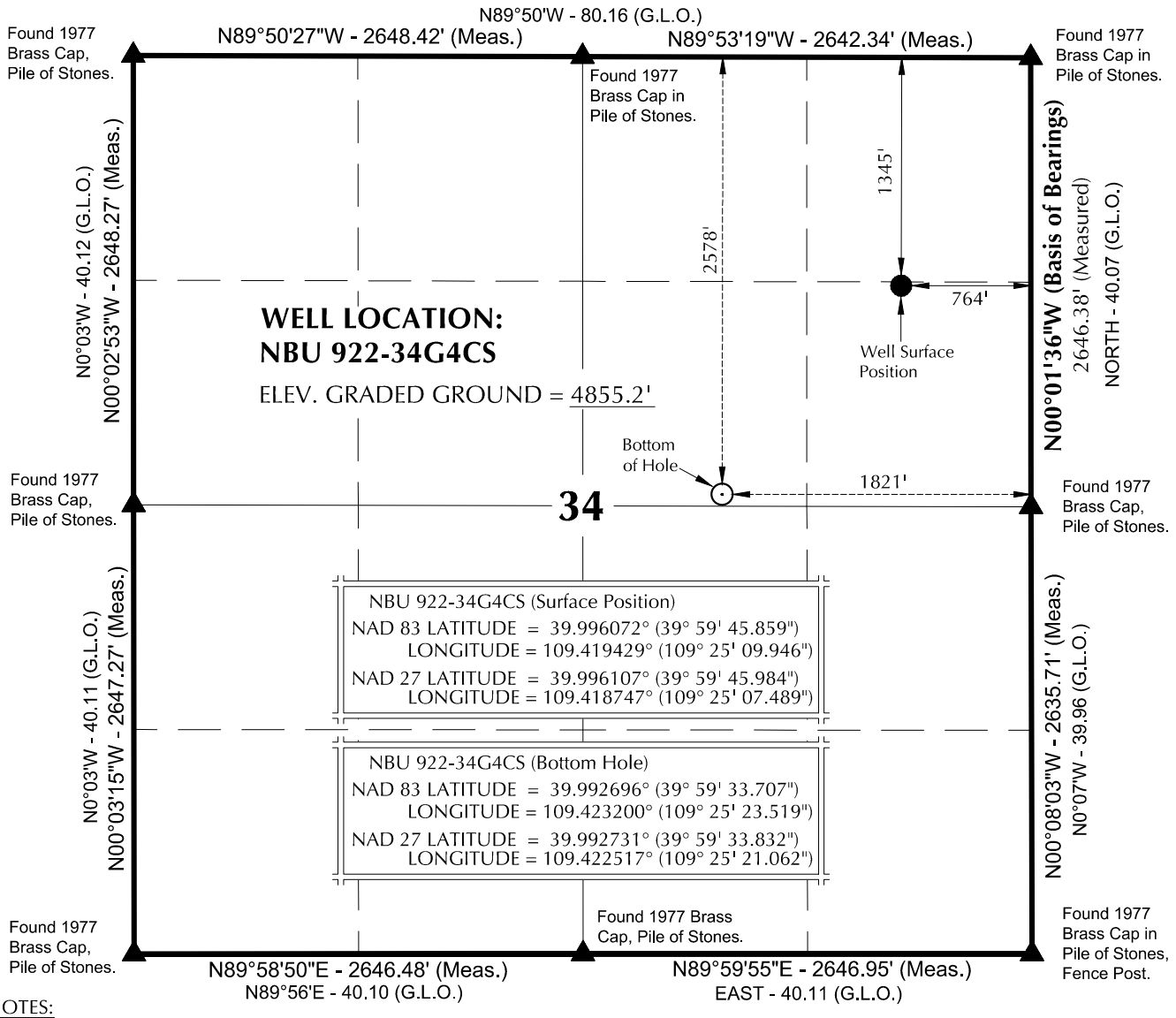
Kerr-McGee Oil & Gas Onshore, LP respectfully requests move the surface hole location for the subject well. In addition, Kerr-McGee also requests to change the depth in which conductor is set from 40' to between 80'-150' and to change the conductor size from 14" to 16". Please see the updated plat, drill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

Approved by the Utah Division of Oil, Gas and Mining
August 31, 2015
Date:
By:

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

RECEIVED: Aug. 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 S40°38'17"W 1621.53' 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'.

N

1000' 500' 0' 1000'

SCALE

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.

8-18-15

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

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 922-34G4CS
WELL PLAT
2578' FNL, 1821' FEL (Bottom Hole)
SW ¼ NE ¼ OF SECTION 34, T9S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH.

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

TIMBERLINE 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: 3
DATE DRAWN: 6-15-12	DRAWN BY: J.G.C.	
SCALE: 1" = 1000'	Date Last Revised: 8-14-15 M.W.W.	3 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 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.

RECEIVED: Aug. 27, 2015

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

NBU 922-34G4CS

Surface:	1345 FNL / 764 FEL	SENE
BHL:	2578 FNL / 1821 FEL	SWNE

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:

Formation	Depth	Resource
Uinta	0 - Surface	
Green River	1,056'	
Birds Nest	1,373'	Water
Mahogany	1,819'	Water
Wasatch	4,230'	Gas
Mesaverde	6,555'	Gas
Sego	8,801'	Gas
TVD	8,834'	
TD	9,099'	

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

RECEIVED: Aug. 27, 2015

6. Evaluation Program:

Please refer to the attached Drilling Program

RECEIVED: Aug. 27, 2015

7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 8834' TVD, approximately equals 5,389 psi 0.61 psi/ft = actual bottomhole gradient

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

Maximum anticipated surface pressure equals approximately 3,469 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.

RECEIVED: Aug. 27, 2015

RECEIVED: Aug. 27, 2015

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP	DATE	January 10, 2013
WELL NAME	**NBU 922-34G4CS**	TD	8,834' TVD 9,099' MD
FIELD	Natural Buttes	COUNTY Uintah STATE Utah	FINISHED ELEVATION 4,854'
SURFACE LOCATION	SENE 1345 FNL 764 FEL	Sec 34 T 9S R 22E	
	Latitude: 39.996072	Longitude: -109.419429	NAD 83
BTM HOLE LOCATION	SWNE 2578 FNL 1821 FEL	Sec 34 T 9S R 22E	
	Latitude: 39.992696	Longitude: -109.423200	NAD 83
OBJECTIVE ZONE(S)	Wasatch/Mesaverde		
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.		

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		150'	16"		
		200'	12-1/4	8-5/8", 28#, IJ-55, LTC	Air mist
			11'	8-5/8", 28#, IJ-55, LTC	Air mist
			7-7/8"	4-1/2" 11.6# I-80 Ultra DQX/LTC csg	Water / Fresh Water Mud 8.3-12.0 ppg

All water flows encountered while drilling will be reported to the appropriate agencies.

Green River @ 1,056'
Top of Birds Nest @ 1,373'
Mahogany @ 1,819'

Preset f/ GL @ 2,270' TVD

Note: 11" surface hole will usually be drilled ±400' below the lost circulation zone (aka bird's nest). Drilled depth may be ±200' of the estimated set depth depending on the acutal depth of the loss zone.

Wasatch @ 4,230'

Mud logging program TBD
Cased hole logging program from TD - surf csg

Mverde @ 6,555' TVD

Sego @ 8,801' TVD

Max anticipated Mud required 12.0 ppg

TD @ 8,834' TVD 9,099' MD

RECEIVED: Aug. 27, 2015

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL			WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	LTC	DQX TENSION
CONDUCTOR	16"	0-150'									
								3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0	to	2,270	28.00	IJ-55	LTC	2.38	1.77	6.25	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		3.10
								7,780	6,350	223,000	267,035
	4-1/2"	5,000	to	9,099'	11.60	I-80	LTC	1.11	1.15	5.74	

Surface Casing:

(Burst Assumptions: TD = 12.0 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.61 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT		YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80		1.15
Option 1			+ 0.25 pps flocele					
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80		1.15
			+ 2% CaCl + 0.25 pps flocele					
SURFACE			**NOTE: If well will circulate water to surface, option 2 will be utilized**					
Option 2	LEAD	1,770'	65/35 Poz + 6% Gel + 10 pps gilsonite	160	35%	11.00		3.82
			+ 0.25 pps Flocele + 3% salt BWOW					
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80		1.15
			+ 0.25 pps flocele					
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80		1.15
PRODUCTION	LEAD	3,729'	Premium Lite II +0.25 pps celloflake + .4% FL-52	290	35%	12.00		3.38
			+ .3% R-3 + .5 lbs/sk Kol-Seal + 6%Bentonite II +					
			1.2% Sodium Metasilicate + .05 lbs/sk Static Free					
	TAIL	5,370'	50/50 Poz/G + 10% salt + .05 lbs/sk Static Free	1,270	35%	14.30		1.31
			+ 1.2% Sodium Metasilicate + .5 % EC-1					
			+.002 gps FP-6L + 2% Bentonite II					

*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

RECEIVED: Aug. 27, 2015

Scientific Drilling

Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: NBU 922-34H PAD
Well: NBU 922-34G4BS
Wellbore: OH
Design: PLAN #2 SURFACE

Anadarko Petroleum Corporation

WELL DETAILS: NBU 922-34G4BS

GL 4854 & KB 4 @ 4858.00ft (PROPETRO 12)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14528565.18	2083293.99	39.9961342	-109.4187490

DESIGN TARGET DETAILS

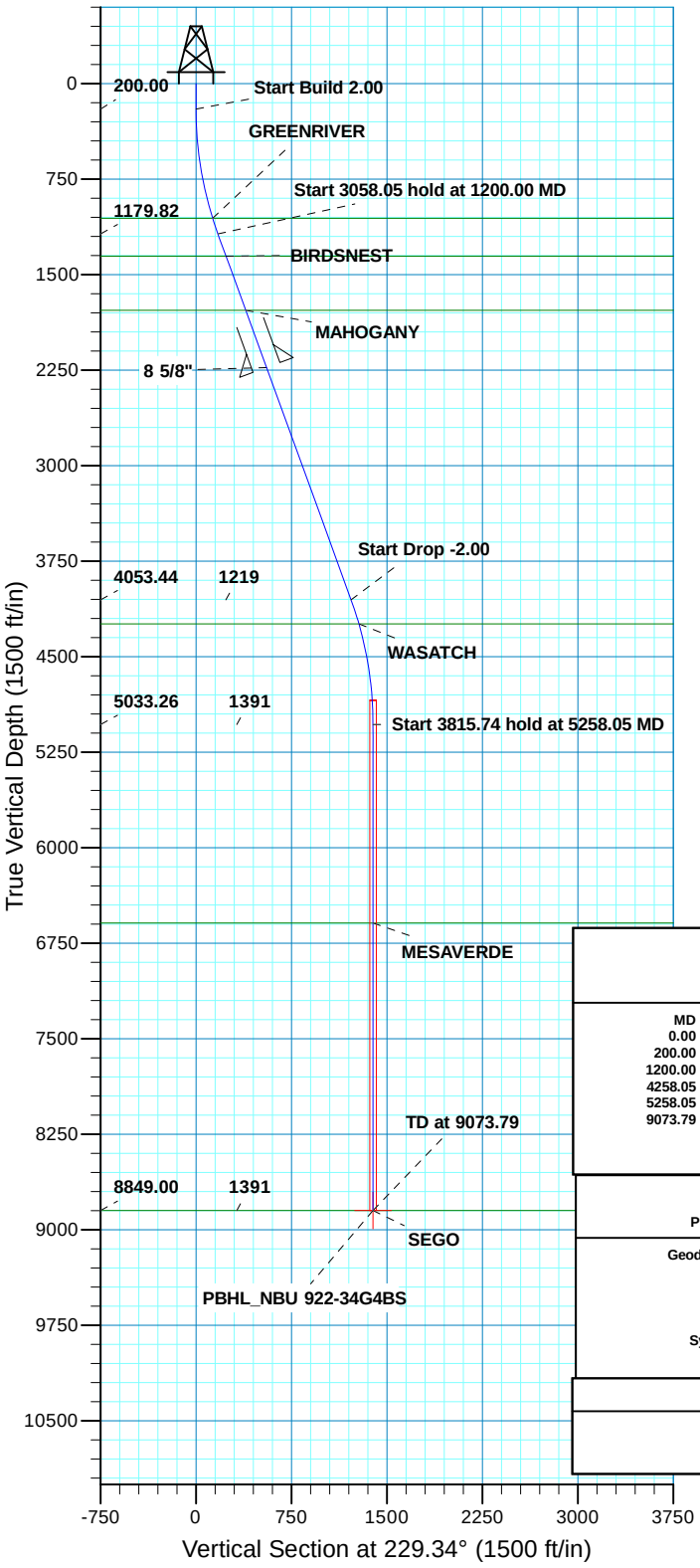
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	8849.00	-906.58	-1055.58	14527640.02	2082254.66	39.9936450	-109.4225170	Circle (Radius: 25.00)

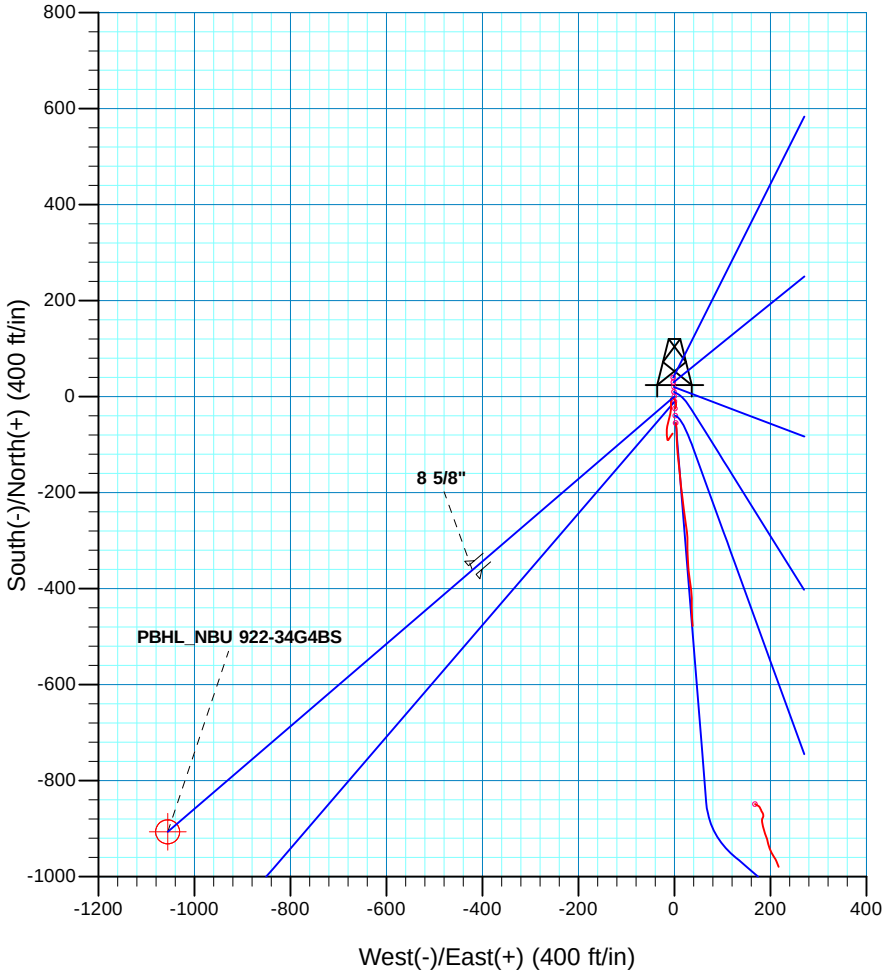
- plan hits target center

T M

Azimuths to True North
Magnetic North: 10.56°

Magnetic Field
Strength: 51884.4snT
Dip Angle: 65.84°
Date: 7/20/2015
Model: BGGM2015





SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	
1200.00	20.00	229.34	1179.82	-112.56	-131.07	2.00	229.34	172.77	
4258.05	20.00	229.34	4053.44	-794.01	-924.52	0.00	0.00	1218.68	
5258.05	0.00	0.00	5033.26	-906.58	-1055.58	2.00	180.00	1391.45	
9073.79	0.00	0.00	8849.00	-906.58	-1055.58	0.00	0.00	1391.45	PBHL_NBU 922-34G4BS

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

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1058.00	1071.37	GREENRIVER
1355.00	1386.43	BIRDSNEST
1779.00	1837.64	MAHOGANY
4242.00	4456.37	WASATCH
6591.00	6815.79	MESAVERDE
8848.99	9073.78	SEGO

CASING DETAILS

TVD	MD	Name	Size
2229.00	2316.52	8 5/8"	8.625

Plan: PLAN #2 SURFACE (NBU 922-34G4BS/OH)

Created By: RobertScott Date: 11:15, August 10 2015

REC

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N
NBU 922-34H PAD
NBU 922-34G4BS

OH

Plan: PLAN #2 SURFACE

Standard Planning Report

10 August, 2015

RECEIVED: Aug. 27, 2015

Anadarko Petroleum Corporation

Planning Report

Scientific Drilling

Database:	Denver Sales	**Local Co-ordinate Reference:**	Well NBU 922-34G4BS
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 922-34G4BS	**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 922-34G4BS, 1350 FNL 764 FEL

Well Position	**+N/-S**	-24.70 ft	**Northing:**	14,528,565.18 usft	**Latitude:**	39.9961342
	+E/-W	1.39 ft	**Easting:**	2,083,293.99 usft	**Longitude:**	-109.4187491
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	229.34

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	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,200.00	20.00	229.34	1,179.82	-112.56	-131.07	2.00	2.00	0.00	229.34	
4,258.05	20.00	229.34	4,053.44	-794.01	-924.52	0.00	0.00	0.00	0.00	
5,258.05	0.00	0.00	5,033.26	-906.58	-1,055.58	2.00	-2.00	0.00	180.00	
9,073.79	0.00	0.00	8,849.00	-906.58	-1,055.58	0.00	0.00	0.00	0.00	PBHL_NBU 922-34G4

RECEIVED: Aug. 27, 2015

Anadarko Petroleum Corporation

Planning Report

Scientific Drilling

Database:	Denver Sales	**Local Co-ordinate Reference:**	Well NBU 922-34G4BS
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 922-34G4BS	**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
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
Start Build 2.00									
300.00	2.00	229.34	299.98	-1.14	-1.32	1.75	2.00	2.00	0.00
400.00	4.00	229.34	399.84	-4.55	-5.29	6.98	2.00	2.00	0.00
500.00	6.00	229.34	499.45	-10.22	-11.91	15.69	2.00	2.00	0.00
600.00	8.00	229.34	598.70	-18.16	-21.15	27.88	2.00	2.00	0.00
700.00	10.00	229.34	697.47	-28.36	-33.02	43.52	2.00	2.00	0.00
800.00	12.00	229.34	795.62	-40.79	-47.49	62.60	2.00	2.00	0.00
900.00	14.00	229.34	893.06	-55.44	-64.56	85.10	2.00	2.00	0.00
1,000.00	16.00	229.34	989.64	-72.31	-84.19	110.98	2.00	2.00	0.00
1,071.37	17.43	229.34	1,058.00	-85.68	-99.76	131.50	2.00	2.00	0.00
GREENRIVER									
1,100.00	18.00	229.34	1,085.27	-91.35	-106.37	140.21	2.00	2.00	0.00
1,200.00	20.00	229.34	1,179.82	-112.56	-131.07	172.77	2.00	2.00	0.00
Start 3058.05 hold at 1200.00 MD									
1,300.00	20.00	229.34	1,273.78	-134.85	-157.01	206.97	0.00	0.00	0.00
1,386.43	20.00	229.34	1,355.00	-154.11	-179.44	236.53	0.00	0.00	0.00
BIRDSNEST									
1,400.00	20.00	229.34	1,367.75	-157.13	-182.96	241.17	0.00	0.00	0.00
1,500.00	20.00	229.34	1,461.72	-179.42	-208.90	275.37	0.00	0.00	0.00
1,600.00	20.00	229.34	1,555.69	-201.70	-234.85	309.58	0.00	0.00	0.00
1,700.00	20.00	229.34	1,649.66	-223.98	-260.80	343.78	0.00	0.00	0.00
1,800.00	20.00	229.34	1,743.63	-246.27	-286.74	377.98	0.00	0.00	0.00
1,837.64	20.00	229.34	1,779.00	-254.65	-296.51	390.85	0.00	0.00	0.00
MAHOGANY									
1,900.00	20.00	229.34	1,837.60	-268.55	-312.69	412.18	0.00	0.00	0.00
2,000.00	20.00	229.34	1,931.57	-290.83	-338.64	446.38	0.00	0.00	0.00
2,100.00	20.00	229.34	2,025.54	-313.12	-364.58	480.59	0.00	0.00	0.00
2,200.00	20.00	229.34	2,119.51	-335.40	-390.53	514.79	0.00	0.00	0.00
2,300.00	20.00	229.34	2,213.48	-357.69	-416.48	548.99	0.00	0.00	0.00
2,316.52	20.00	229.34	2,229.00	-361.37	-420.76	554.64	0.00	0.00	0.00
8 5/8"									
2,400.00	20.00	229.34	2,307.45	-379.97	-442.42	583.19	0.00	0.00	0.00
2,500.00	20.00	229.34	2,401.42	-402.25	-468.37	617.39	0.00	0.00	0.00
2,600.00	20.00	229.34	2,495.39	-424.54	-494.31	651.60	0.00	0.00	0.00
2,700.00	20.00	229.34	2,589.35	-446.82	-520.26	685.80	0.00	0.00	0.00
2,800.00	20.00	229.34	2,683.32	-469.10	-546.21	720.00	0.00	0.00	0.00
2,900.00	20.00	229.34	2,777.29	-491.39	-572.15	754.20	0.00	0.00	0.00
3,000.00	20.00	229.34	2,871.26	-513.67	-598.10	788.40	0.00	0.00	0.00
3,100.00	20.00	229.34	2,965.23	-535.95	-624.05	822.61	0.00	0.00	0.00
3,200.00	20.00	229.34	3,059.20	-558.24	-649.99	856.81	0.00	0.00	0.00
3,300.00	20.00	229.34	3,153.17	-580.52	-675.94	891.01	0.00	0.00	0.00
3,400.00	20.00	229.34	3,247.14	-602.81	-701.88	925.21	0.00	0.00	0.00
3,500.00	20.00	229.34	3,341.11	-625.09	-727.83	959.41	0.00	0.00	0.00
3,600.00	20.00	229.34	3,435.08	-647.37	-753.78	993.62	0.00	0.00	0.00
3,700.00	20.00	229.34	3,529.05	-669.66	-779.72	1,027.82	0.00	0.00	0.00
3,800.00	20.00	229.34	3,623.02	-691.94	-805.67	1,062.02	0.00	0.00	0.00
3,900.00	20.00	229.34	3,716.99	-714.22	-831.62	1,096.22	0.00	0.00	0.00
4,000.00	20.00	229.34	3,810.95	-736.51	-857.56	1,130.42	0.00	0.00	0.00

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Anadarko Petroleum Corporation

Planning Report

Scientific Drilling

Database:	Denver Sales	**Local Co-ordinate Reference:**	Well NBU 922-34G4BS
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 922-34G4BS	**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)
4,100.00	20.00	229.34	3,904.92	-758.79	-883.51	1,164.63	0.00	0.00	0.00
4,200.00	20.00	229.34	3,998.89	-781.08	-909.46	1,198.83	0.00	0.00	0.00
4,258.05	20.00	229.34	4,053.44	-794.01	-924.52	1,218.68	0.00	0.00	0.00
Start Drop -2.00									
4,300.00	19.16	229.34	4,092.97	-803.17	-935.18	1,232.74	2.00	-2.00	0.00
4,400.00	17.16	229.34	4,187.98	-823.48	-958.83	1,263.91	2.00	-2.00	0.00
4,456.37	16.03	229.34	4,242.00	-833.97	-971.04	1,280.01	2.00	-2.00	0.00
WASATCH									
4,500.00	15.16	229.34	4,284.02	-841.61	-979.94	1,291.74	2.00	-2.00	0.00
4,600.00	13.16	229.34	4,380.98	-857.55	-998.50	1,316.20	2.00	-2.00	0.00
4,700.00	11.16	229.34	4,478.73	-871.27	-1,014.48	1,337.27	2.00	-2.00	0.00
4,800.00	9.16	229.34	4,577.16	-882.77	-1,027.86	1,354.91	2.00	-2.00	0.00
4,900.00	7.16	229.34	4,676.14	-892.02	-1,038.63	1,369.11	2.00	-2.00	0.00
5,000.00	5.16	229.34	4,775.56	-899.01	-1,046.77	1,379.84	2.00	-2.00	0.00
5,100.00	3.16	229.34	4,875.29	-903.74	-1,052.28	1,387.09	2.00	-2.00	0.00
5,200.00	1.16	229.34	4,975.21	-906.19	-1,055.14	1,390.86	2.00	-2.00	0.00
5,258.05	0.00	0.00	5,033.26	-906.58	-1,055.58	1,391.45	2.00	-2.00	0.00
Start 3815.74 hold at 5258.05 MD									
5,300.00	0.00	0.00	5,075.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
5,400.00	0.00	0.00	5,175.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
5,500.00	0.00	0.00	5,275.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
5,600.00	0.00	0.00	5,375.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
5,700.00	0.00	0.00	5,475.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
5,800.00	0.00	0.00	5,575.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
5,900.00	0.00	0.00	5,675.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
6,000.00	0.00	0.00	5,775.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
6,100.00	0.00	0.00	5,875.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
6,200.00	0.00	0.00	5,975.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
6,300.00	0.00	0.00	6,075.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
6,400.00	0.00	0.00	6,175.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
6,500.00	0.00	0.00	6,275.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
6,600.00	0.00	0.00	6,375.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
6,700.00	0.00	0.00	6,475.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
6,800.00	0.00	0.00	6,575.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
6,815.79	0.00	0.00	6,591.00	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
MESAVERDE									
6,900.00	0.00	0.00	6,675.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
7,000.00	0.00	0.00	6,775.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
7,100.00	0.00	0.00	6,875.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
7,200.00	0.00	0.00	6,975.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
7,300.00	0.00	0.00	7,075.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
7,400.00	0.00	0.00	7,175.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
7,500.00	0.00	0.00	7,275.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
7,600.00	0.00	0.00	7,375.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
7,700.00	0.00	0.00	7,475.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
7,800.00	0.00	0.00	7,575.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
7,900.00	0.00	0.00	7,675.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
8,000.00	0.00	0.00	7,775.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
8,100.00	0.00	0.00	7,875.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
8,200.00	0.00	0.00	7,975.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
8,300.00	0.00	0.00	8,075.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
8,400.00	0.00	0.00	8,175.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00

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Planning Report

Scientific Drilling

Database:	Denver Sales	**Local Co-ordinate Reference:**	Well NBU 922-34G4BS
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 922-34G4BS	**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)
8,500.00	0.00	0.00	8,275.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
8,600.00	0.00	0.00	8,375.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
8,700.00	0.00	0.00	8,475.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
8,800.00	0.00	0.00	8,575.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
8,900.00	0.00	0.00	8,675.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
9,000.00	0.00	0.00	8,775.21	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
9,073.78	0.00	0.00	8,848.99	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
SEGO									
9,073.79	0.00	0.00	8,849.00	-906.58	-1,055.58	1,391.45	0.00	0.00	0.00
TD at 9073.79 - PBHL_NBU 922-34G4BS									

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 922-34G4B - plan hits target center - Circle (radius 25.00)	0.00	0.00	8,849.00	-906.58	-1,055.58	14,527,640.03	2,082,254.66	39.9936450	-109.4225170

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,316.52	2,229.00	8 5/8"	8.625	11.000

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,071.37	1,058.00	GREENRIVER			
1,386.43	1,355.00	BIRDSNEST			
1,837.64	1,779.00	MAHOGANY			
4,456.37	4,242.00	WASATCH			
6,815.79	6,591.00	MESAVERDE			
9,073.78	8,848.99	SEGO		0.00	

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Planning Report

Scientific Drilling

Database:	Denver Sales	**Local Co-ordinate Reference:**	Well NBU 922-34G4BS
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 922-34G4BS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2 SURFACE		

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
200.00	200.00	0.00	0.00	Start Build 2.00
1,200.00	1,179.82	-112.56	-131.07	Start 3058.05 hold at 1200.00 MD
4,258.05	4,053.44	-794.01	-924.52	Start Drop -2.00
5,258.05	5,033.26	-906.58	-1,055.58	Start 3815.74 hold at 5258.05 MD
9,073.79	8,849.00	-906.58	-1,055.58	TD at 9073.79

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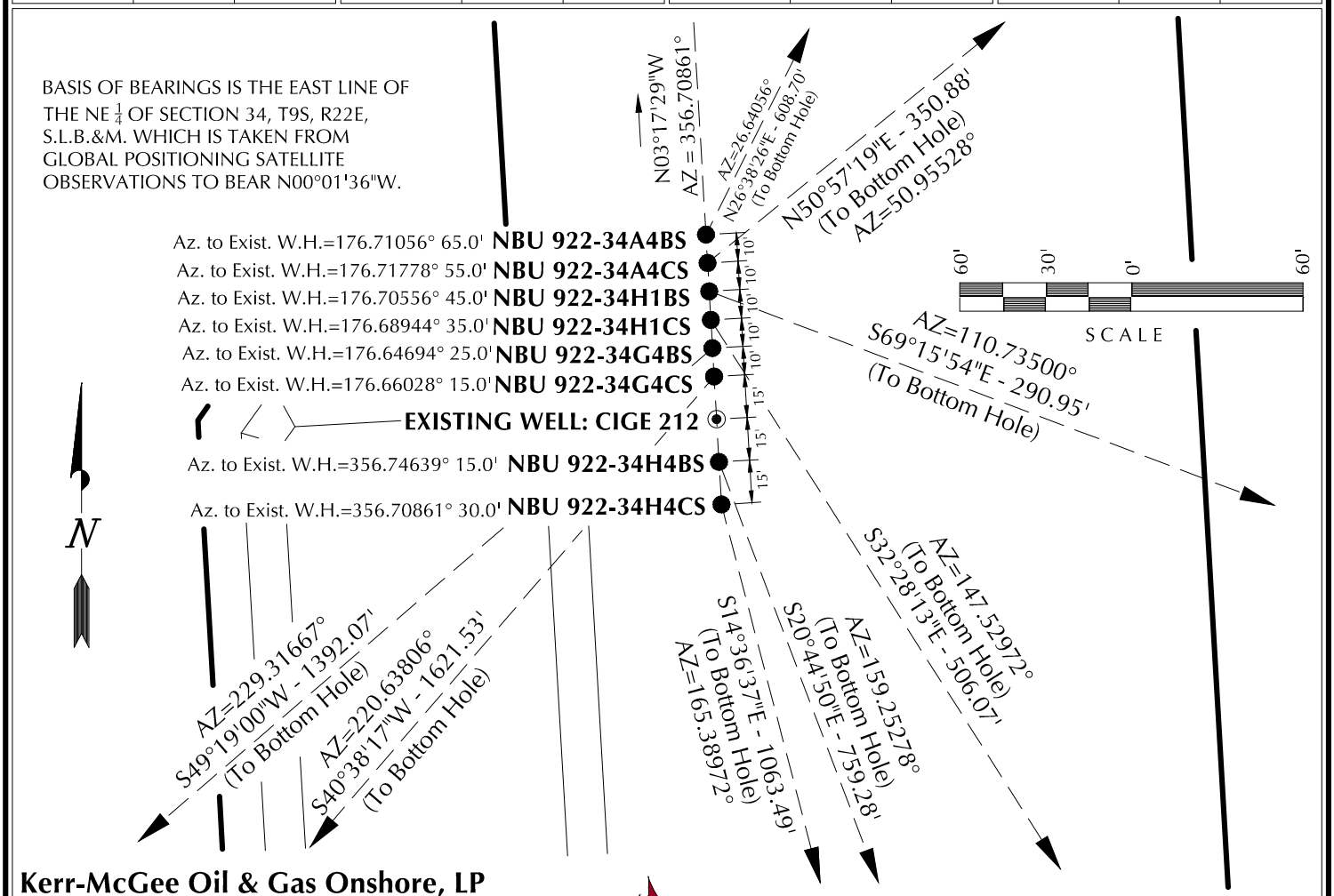
WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27			NAD83		NAD27		
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES
NBU 922-34H4CS	39°59'45.415" 39.995949°	109°25'09.913" 109.419420°	39°59'45.539" 39.995983°	109°25'07.456" 109.418738°	1390' FNL 762' FEL	39°59'35.246" 39.993124°	109°25'06.474" 109.418465°	39°59'35.371" 39.993159°	109°25'04.017" 109.417782°	2419' FNL 494' FEL
NBU 922-34H4BS	39°59'45.562" 39.995990°	109°25'09.924" 109.419423°	39°59'45.687" 39.996024°	109°25'07.467" 109.418741°	1375' FNL 763' FEL	39°59'38.546" 39.994041°	109°25'06.474" 109.418465°	39°59'38.671" 39.994075°	109°25'04.017" 109.417782°	2085' FNL 494' FEL
NBU 922-34G4CS	39°59'45.859" 39.996072°	109°25'09.946" 109.419429°	39°59'45.984" 39.996107°	109°25'07.489" 109.418747°	1345' FNL 764' FEL	39°59'33.707" 39.992696°	109°25'23.519" 109.423200°	39°59'33.832" 39.992731°	109°25'21.062" 109.422517°	2578' FNL 1821' FEL
NBU 922-34G4BS	39°59'45.958" 39.996099°	109°25'09.954" 109.419432°	39°59'46.082" 39.996134°	109°25'07.496" 109.418749°	1335' FNL 765' FEL	39°59'36.997" 39.993610°	109°25'23.519" 109.423200°	39°59'37.122" 39.993645°	109°25'21.062" 109.422517°	2245' FNL 1821' FEL
NBU 922-34H1CS	39°59'46.056" 39.996127°	109°25'09.961" 109.419433°	39°59'46.180" 39.996161°	109°25'07.503" 109.418751°	1326' FNL 765' FEL	39°59'41.836" 39.994954°	109°25'06.473" 109.418465°	39°59'41.961" 39.994989°	109°25'04.016" 109.417782°	1752' FNL 494' FEL
NBU 922-34H1BS	39°59'46.155" 39.996154°	109°25'09.968" 109.419436°	39°59'46.280" 39.996189°	109°25'07.511" 109.418753°	1316' FNL 766' FEL	39°59'45.136" 39.995871°	109°25'06.473" 109.418465°	39°59'45.260" 39.995906°	109°25'04.016" 109.417782°	1418' FNL 494' FEL
NBU 922-34A4CS	39°59'46.253" 39.996181°	109°25'09.975" 109.419437°	39°59'46.378" 39.996216°	109°25'07.518" 109.418755°	1306' FNL 767' FEL	39°59'48.436" 39.996788°	109°25'06.473" 109.418465°	39°59'48.560" 39.996822°	109°25'04.016" 109.417782°	1084' FNL 494' FEL
NBU 922-34A4BS	39°59'46.352" 39.996209°	109°25'09.982" 109.419440°	39°59'46.476" 39.996243°	109°25'07.525" 109.418757°	1296' FNL 767' FEL	39°59'51.726" 39.997702°	109°25'06.473" 109.418465°	39°59'51.850" 39.997736°	109°25'04.016" 109.417782°	751' FNL 494' FEL
CIGE 212	39°59'45.711" 39.996031°	109°25'09.935" 109.419426°	39°59'45.835" 39.996065°	109°25'07.478" 109.418744°	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	-710.0'	269.0'	NBU 922-34G4CS	-1,230.5'	-1,056.1'	NBU 922-34G4BS	-907.5'	-1,055.6'
WELL NAME	**NORTH**	**EAST**	**WELL NAME**	**NORTH**	**EAST**	**WELL NAME**	**NORTH**	**EAST**	**WELL NAME**	**NORTH**	**EAST**
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

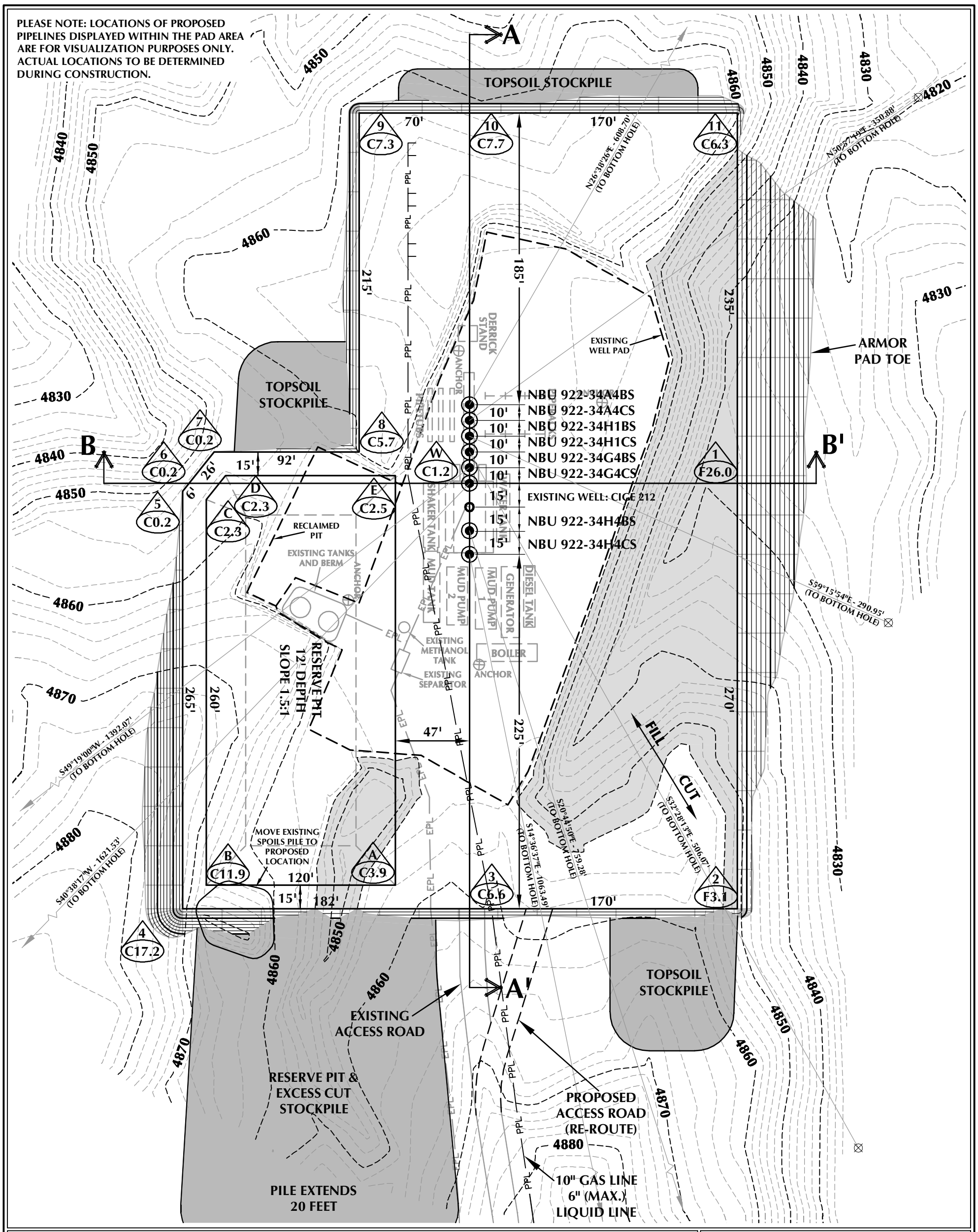
WELL PAD - NBU 922-34H

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

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:
DATE DRAWN: 6-15-12	DRAWN BY: J.G.C.	9
SCALE: 1" = 60'	Date Last Revised: 8-14-15 M.W.W.	9 OF 20



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., UINTAH COUNTY, UTAH

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

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

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

N

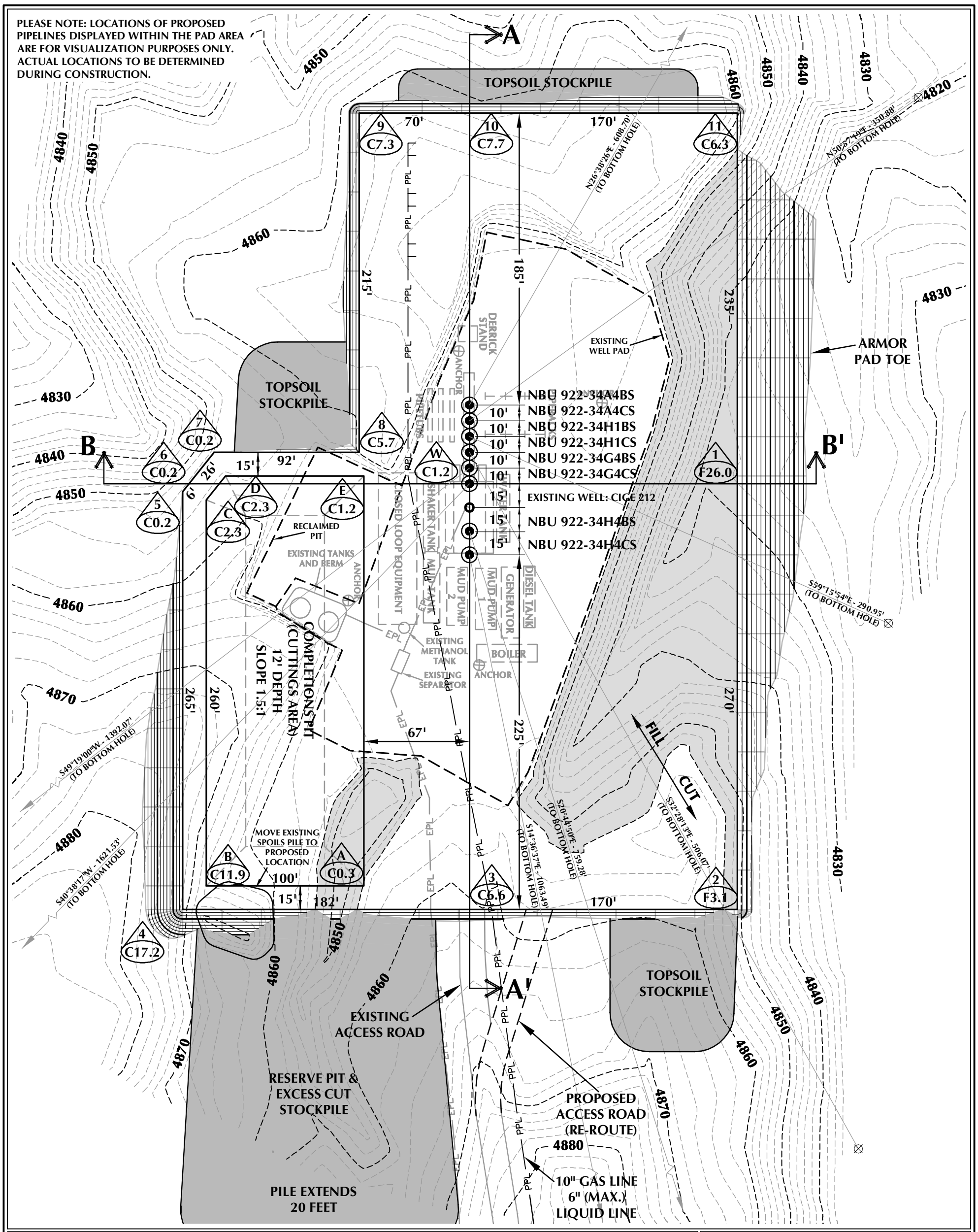
HORIZONTAL 0 30' 60' 1" = 60'

2' CONTOURS

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

K:\ANADARKO\2012\2012_36_NBU_FOCUS_922-34\DWGS\NBU 922-34H\NBU 922-34H.dwg, 8/19/2015 5:50:32 PM, jacob

RECEIVED: Aug. 27, 2015



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., UINTAH COUNTY, UTAH

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

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2155 North Main Street
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Fax 307-674-0182

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209 NORTH 300 WEST - VERNAL, UTAH 84078

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

N

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

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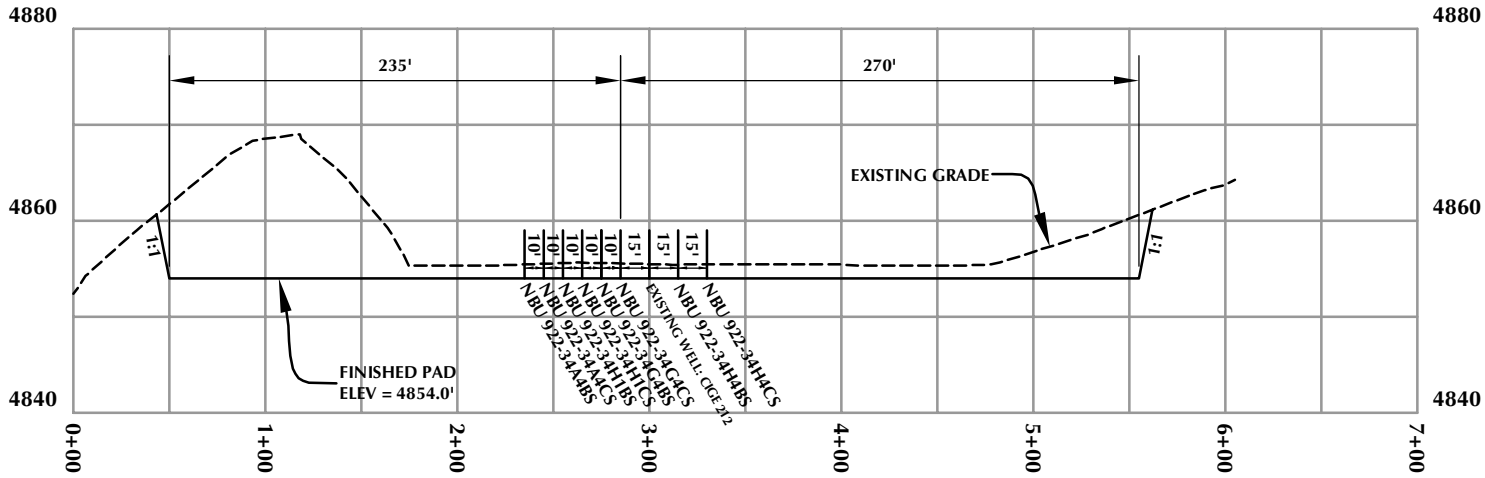
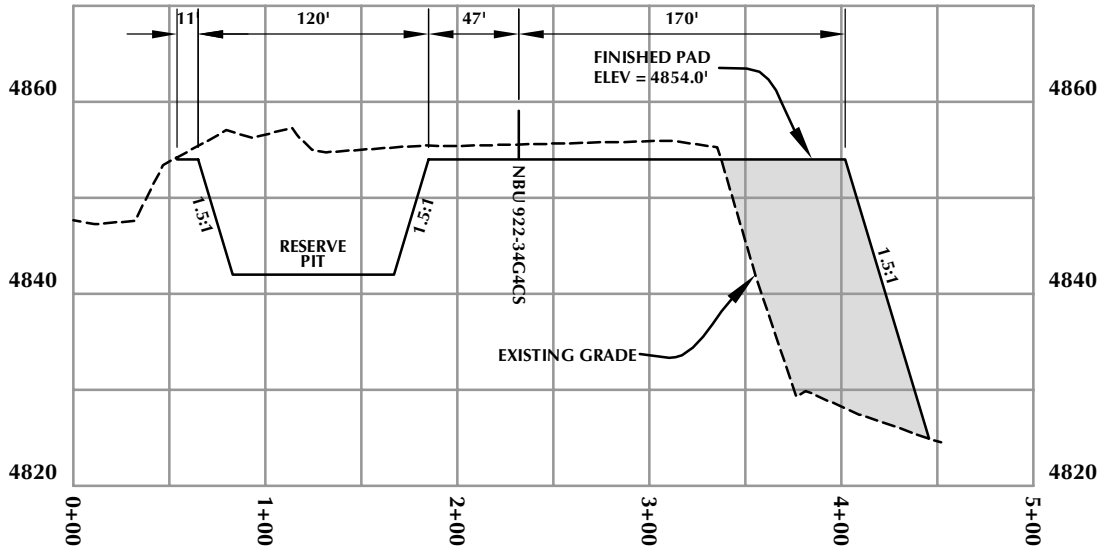
RECEIVED: Aug. 27, 2015



CROSS SECTION A-A'



CROSS SECTION B-B'

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

HORIZONTAL 0 50' 100' 1" = 100'

VERTICAL 0 10' 20' 1" = 20'

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

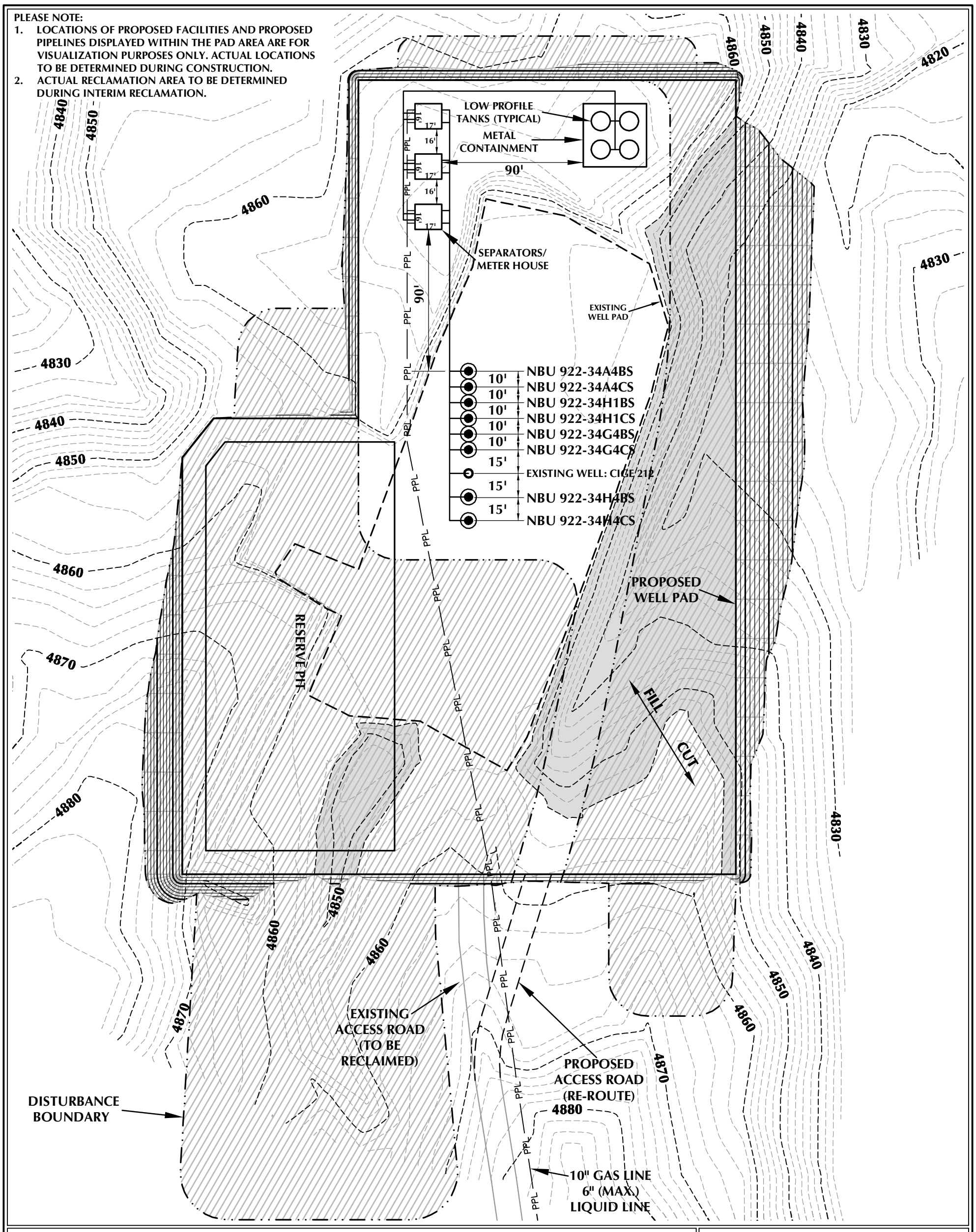
609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

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

Scale: 1"=100' | Date: 7/10/12 | SHEET NO: 11
REVISED: 8/18/15 | 11 OF 20

K:\ANADARKO\2012\2012_36_NBU_FOCUS_922-34\DWGS\NBU 922-34H\NBU 922-34H.dwg, 8/19/2015 5:40:03 PM, jacob

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



WELL PAD - NBU 922-34H DESIGN SUMMARY

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

WELL PAD LEGEND

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

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

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

WELL PAD - NBU 922-34H

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

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

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

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RECEIVED: Aug. 27, 2015

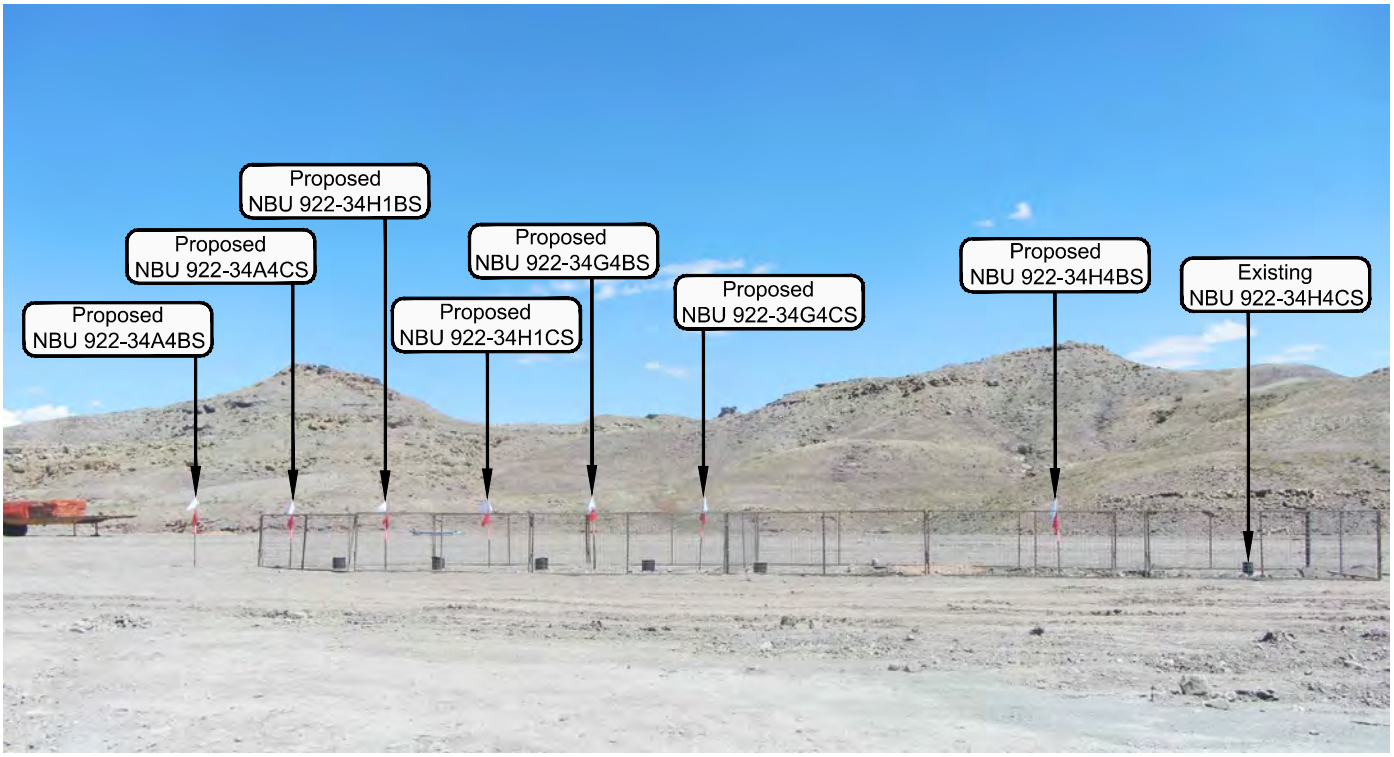

PHOTO VIEW: FROM LOCATION STAKE TO CORNER #1 **CAMERA ANGLE: EASTERLY**

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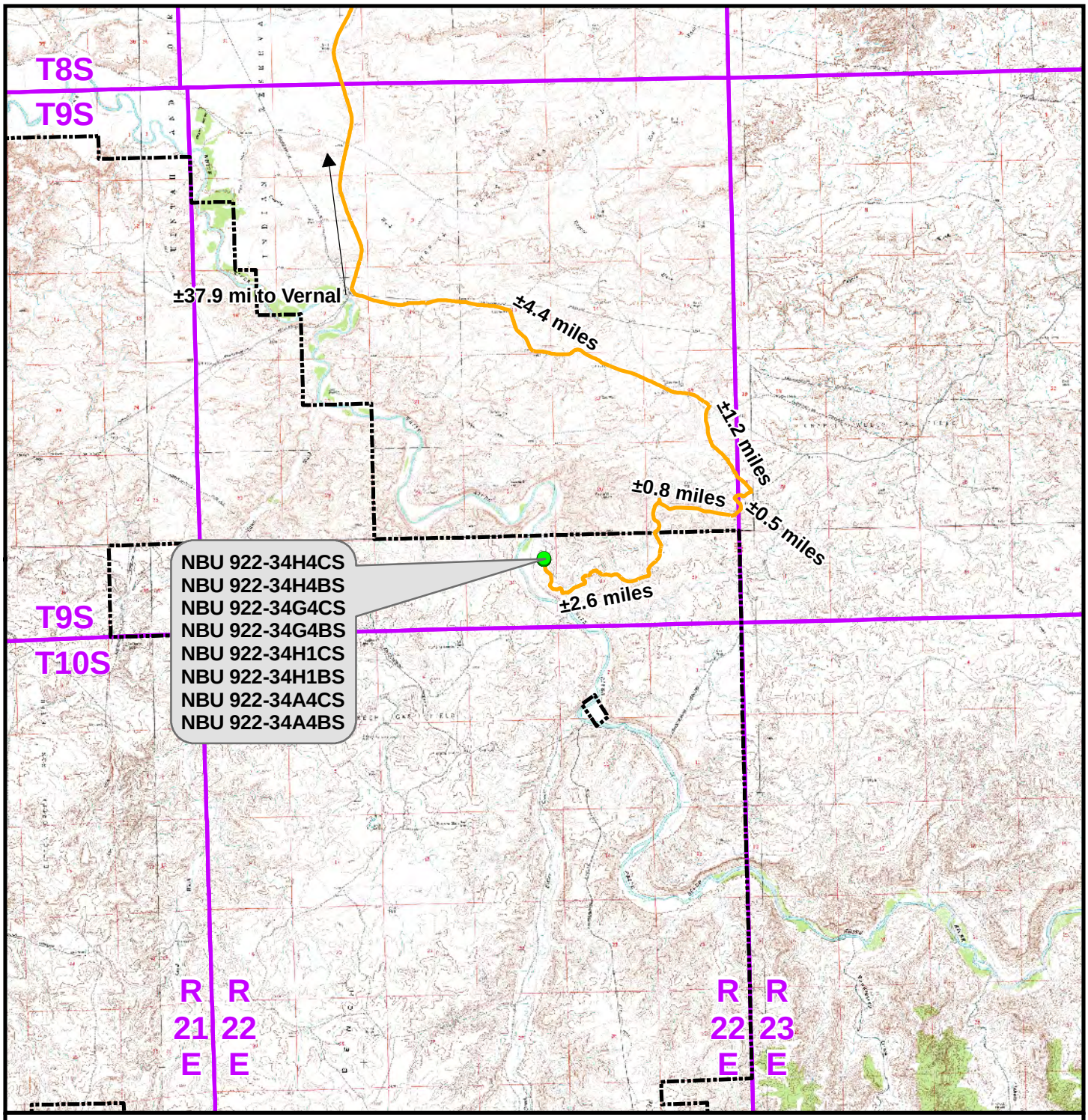
CONSULTING, LLC
1095 Saberton Ave.
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

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

DATE PHOTOS TAKEN: 5-14-12	PHOTOS TAKEN BY: A.F.	SHEET NO: 13
DATE DRAWN: 6-15-12	DRAWN BY: J.G.C.	
Date Last Revised: 8-13-15 M.W.W.		13 OF 20

RECEIVED: Aug. 27, 2015



Legend

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

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

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

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SCALE: 1:100,000	NAD83 USP Central	SHEET NO: 14
DRAWN: TL	DATE: 5 July 2012	14 OF 20
REVISED:	DATE:	

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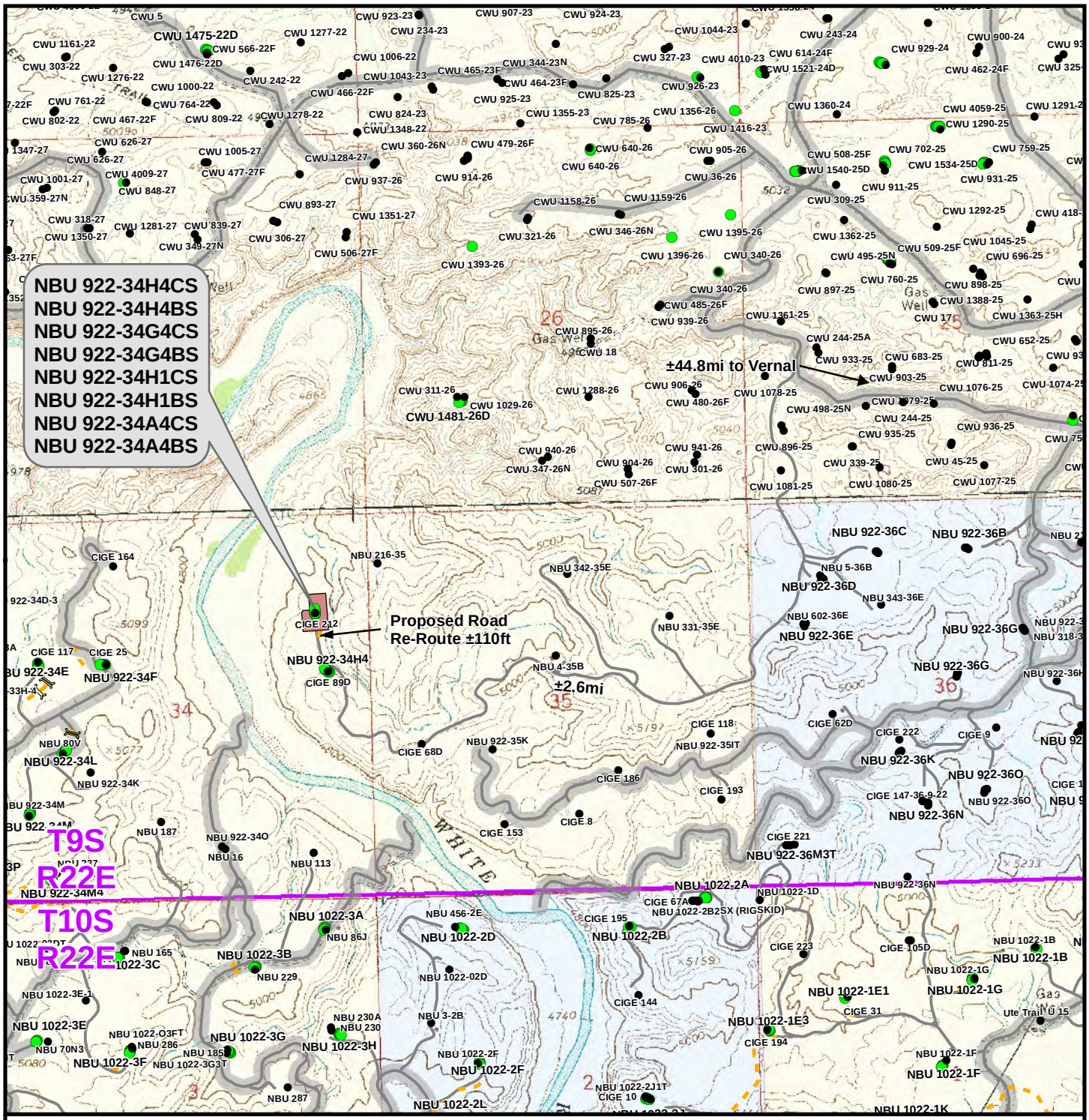

Legend

Total Proposed Road Re-Route Length: ±110ft

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

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

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	SHEET NO: 15	
DRAWN: TL	DATE: 5 July 2012		
REVISED: TL	DATE: 18 Sept 2012	15 OF 20	

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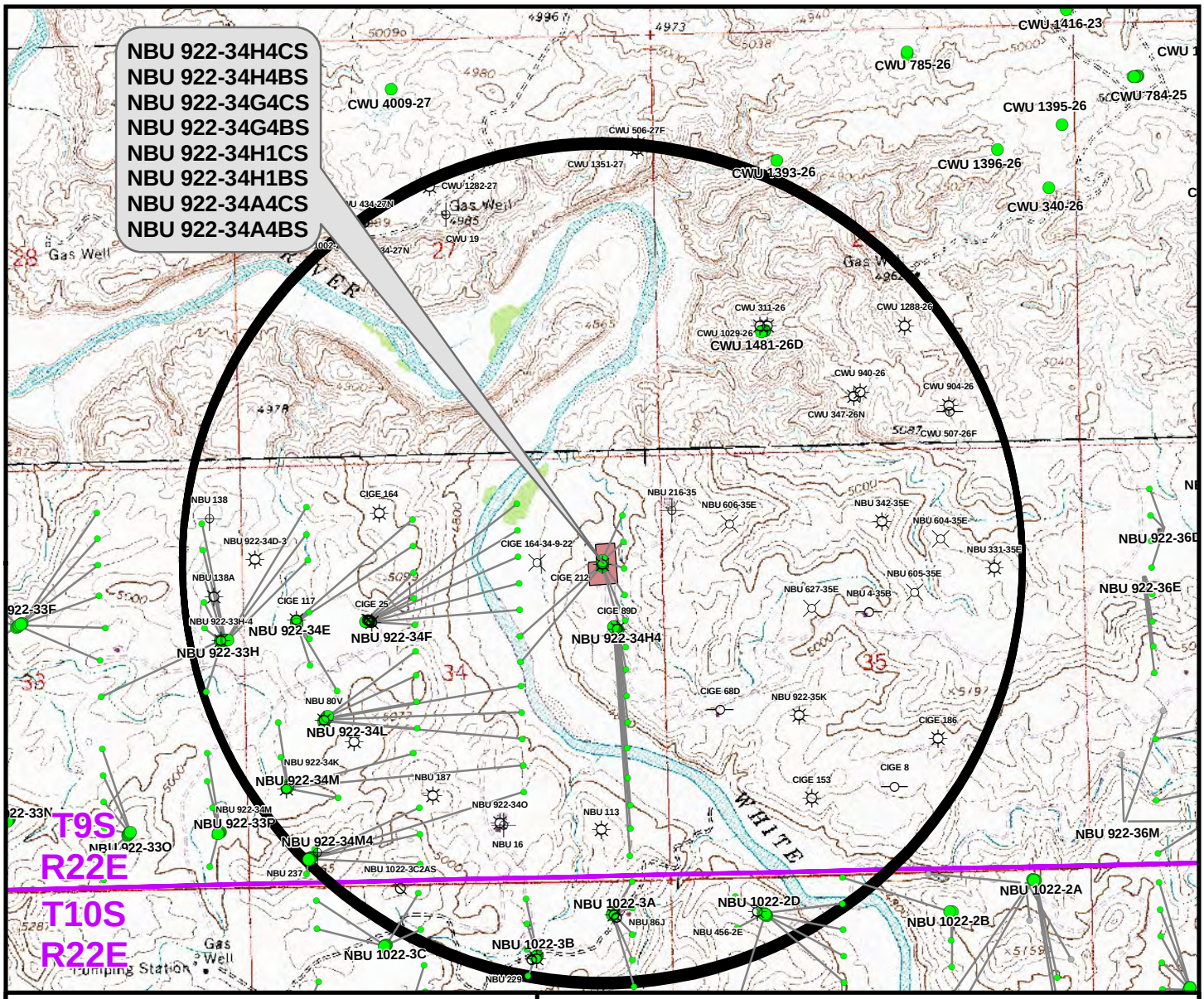

Well locations derived from Utah Division of Oil, Gas and Mining (UDOGM) (oilgas.ogm.utah.gov). The estimated distances from proposed bore locations to the nearest existing bore locations are based on UDOGM data.

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

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	SHEET NO: 16
DRAWN: TL	DATE: 18 Sept 2012	16 OF 20
REVISED:	DATE:	

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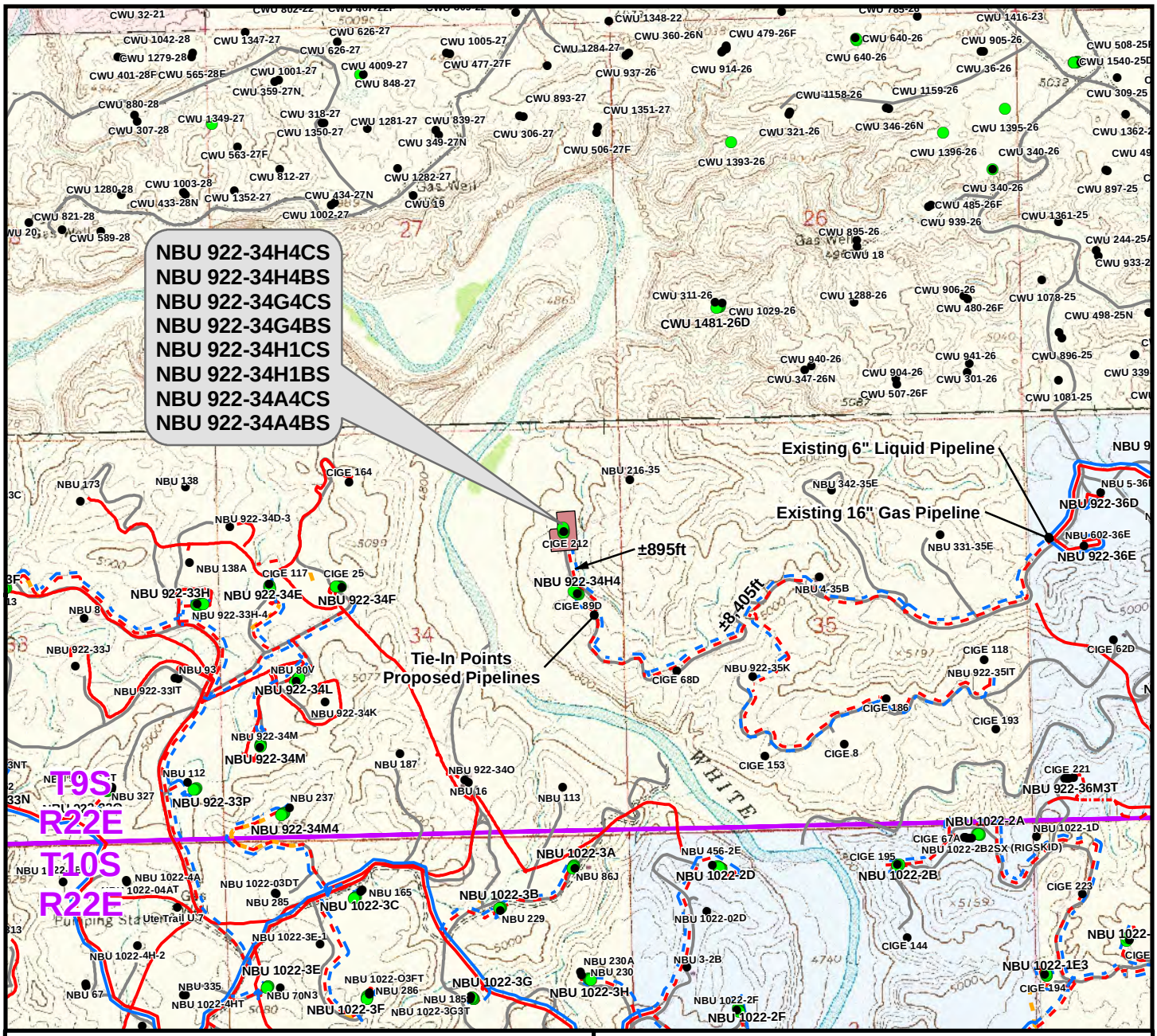

Proposed Liquid Pipeline	Length
Buried 6"(Max.) (Separator to Edge of Pad)	±200ft
Buried 6"(Max.) (Edge of Pad to 34H4 Intersection)	±895ft
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±1,095ft

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

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SCALE: 1" = 2,000ft	NAD83 USP Central	SHEET NO: 17
DRAWN: TL	DATE: 18 Sept 2012	17 OF 20
REVISED:	DATE:	

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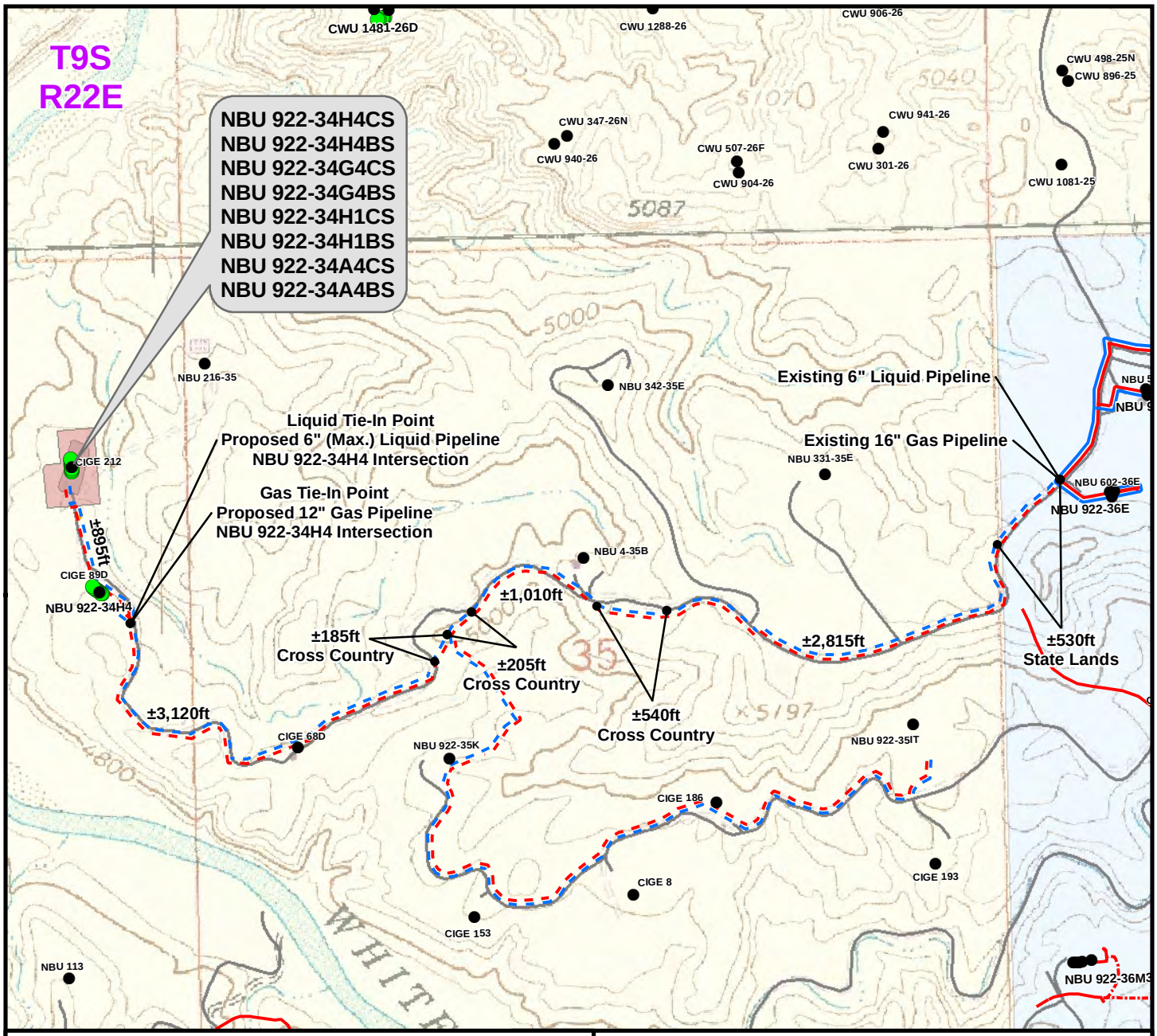

Proposed Liquid Pipeline	Length
Buried 6"(Max.) (Separator to Edge of Pad)	±200ft
Buried 6"(Max.) (Edge of Pad to 34H4 Intersection)	±895ft
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±1,095ft

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

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

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SCALE: 1" = 1,000ft	NAD83 USP Central	SHEET NO:	
DRAWN: TL	DATE: 5 July 2012	18	
REVISED: TL	DATE: 18 Sept 2012	18 OF 20	

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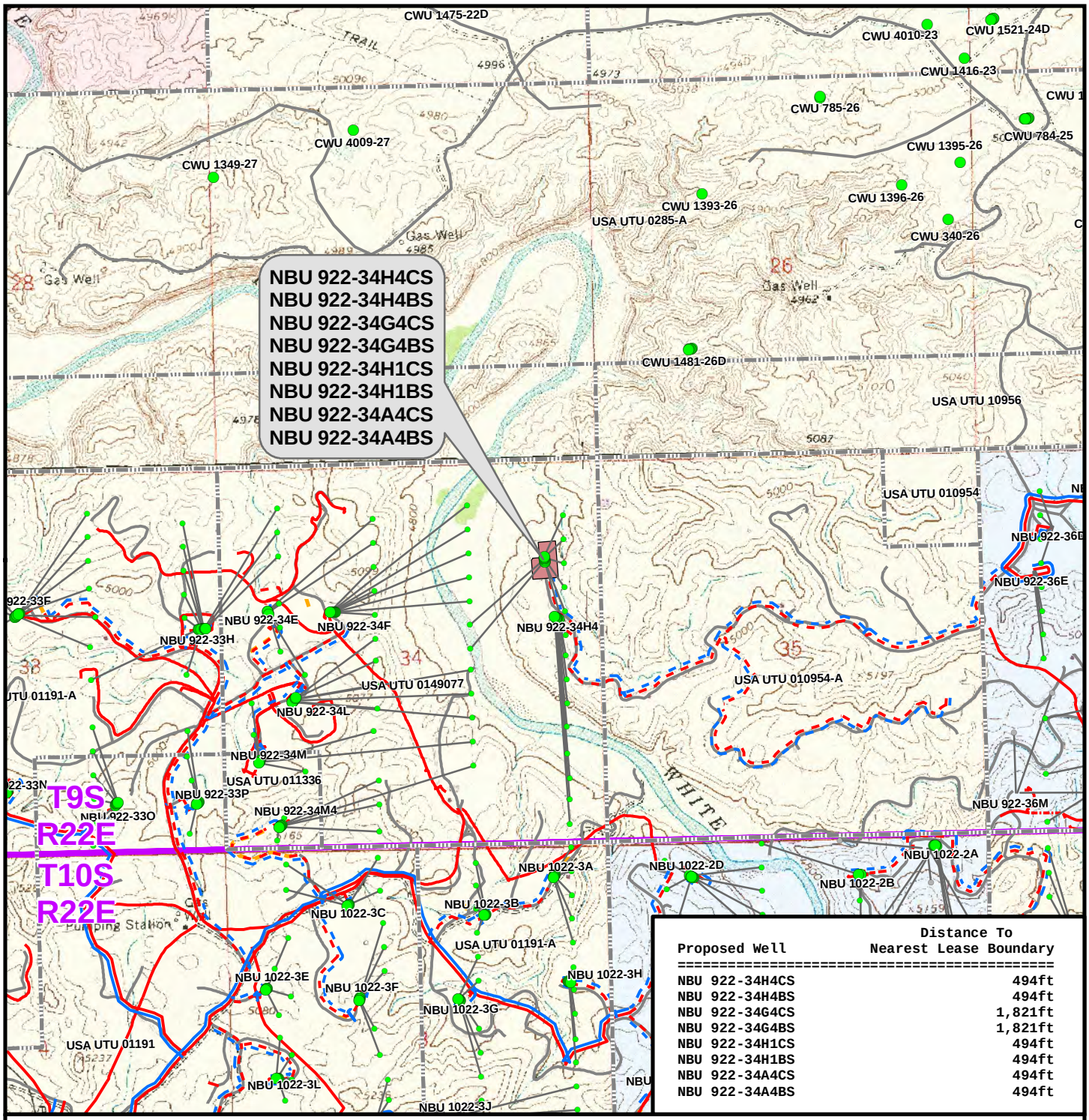

Proposed Well	Distance To Nearest Lease Boundary
NBU 922-34H4CS	494ft
NBU 922-34H4BS	494ft
NBU 922-34G4CS	1,821ft
NBU 922-34G4BS	1,821ft
NBU 922-34H1CS	494ft
NBU 922-34H1BS	494ft
NBU 922-34A4CS	494ft
NBU 922-34A4BS	494ft

Legend

- Well - Proposed
- 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

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

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SCALE: 1" = 2,000ft	NAD83 USP Central	SHEET NO: 19
DRAWN: TL	DATE: 18 Sept 2012	19 OF 20
REVISED:	DATE:	

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FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

FORM 9

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

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 922-34G4CS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047537390000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6100 EXT

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1345 FNL 0764 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE 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		
✓ NOTICE OF INTENT Approximate date work will start: 9/15/2015	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	✓ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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 922-34G4CS due to a surface location change. Current wellbore surface drilled to 210', no surface pipe or cement . See the attached procedure to plug the surface hole.

Approved by the Utah Division of Oil, Gas and Mining

Date: October 05, 2015

By: Dark K Quist

Please Review Attached Conditions of Approval

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

RECEIVED: Sep. 08, 2015

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43047537390000

Approval for change of location submitted 8/27/2015 and approved on 8/31/2015 is rescinded. The new surface hole location will require the submittal and approval of a new APD.

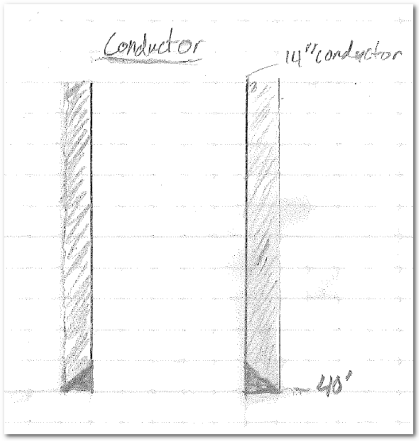
RECEIVED: Oct. 05, 2015

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

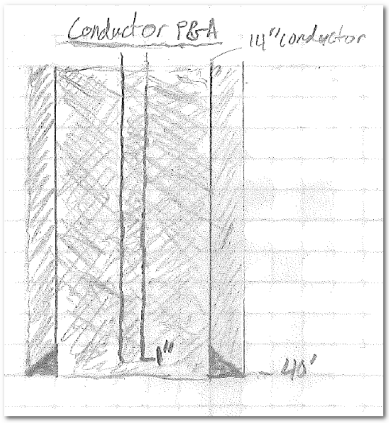
Well Bore Diagram (Before)



Procedure

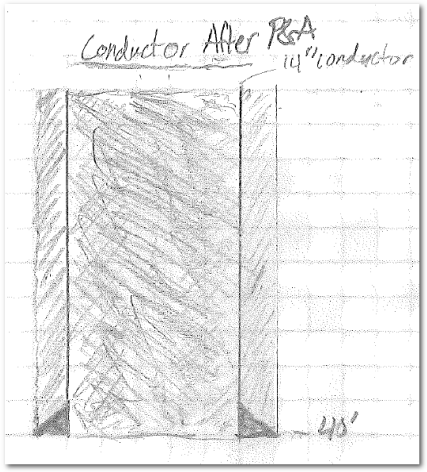
1) Run 1" pipe to TD of Conductor ~40 feet.
2) Rig up cementers and pressure cement through 1".
3) Pump approximately 7.6 bbls of cement (until hole is full).
4) Any water is to be sucked up with Vac Truck.
5) Pull 1" after pressure cementing is complete
6) Top off hole with cement as needed.

P&A Well Bore Diagram (During)



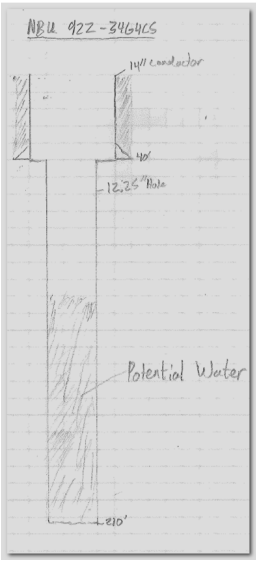
RECEIVED: Sep. 08, 2015

P&A Wellbore Diagram (After)



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

Well Bore Diagram (Before)

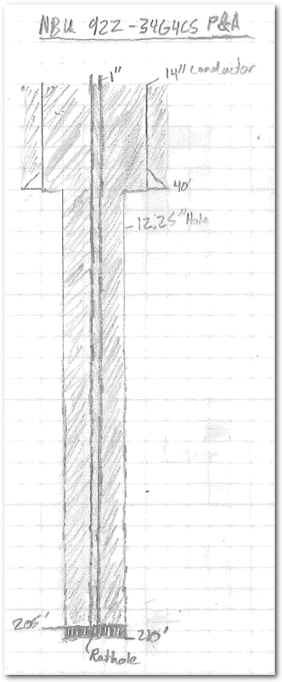


Procedure

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)

RECEIVED: Sep. 08, 2015



RECEIVED: Sep. 08, 2015

FORM 9

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

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 922-34G4CS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047537390000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6524

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1345 FNL 0764 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE 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		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
✓ DRILLING REPORT Report Date: 12/30/2015	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

No activity for Quarter 4 of 2015. Well drilled to 210 ft. Thank you.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
January 05, 2016

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Kristina Geno	720 929-6824	Regulatory Analyst

SIGNATURE	DATE
N/A	12/30/2015

RECEIVED: Dec. 30, 2015

FORM 3160-4
(March 2012)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.: UTU0149077

1a. Type of Well: ☐ Oil Well ☑ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☑ New Well ☐ Workover ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,
Other

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.: UTU63047A

2. Name of Operator: KERR-MCGEE OIL AND GAS ONSHORE LP
Contact: Jennifer Thomas
Email: Jennifer.Thomas@anadarko.com

8. Lease Name and Well No.: NBU 922-34G4CS

3. Address: P.O. Box 173779, Denver CO 80217
3a. Phone No. (*include area code*): 720-929-6808

9. API Well No.: 43-047-53739

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

At Surface: SENE 1345 FNL 764 FEL Lat. 39.996072 Long. 109.419429
At top prod. interval reported below: SWNE
At total depth: SWNE Lat. 39.9926964 Long. 109.4231997

10. Field and Pool, or Exploratory: Natural Buttes
11. Sec., T., R., M., on Block and Survey or Area: Sec 34 T 9S R 22E Mer SLB
12. County or Parish: UINTAH
13. State: UT

14. Date Spudded: 7/11/2015
15. Date T.D. Reached: 7/24/2015
16. Date Completed: ☑ D&A ☐ Ready to Prod. 2/16/2016
17. Elevations (DF, RKB, RT, GL)*: 4,858 RKB

18. Total Depth: MD 210 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? ☑ No ☐ Yes (Submit analysis)
Was DST run? ☑ No ☐ Yes (Submit report)
Directional Survey? ☑ No ☐ 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

Formation	Top	Bottom
A)		
B)		
C)		
D)		

26. Perforation Record

Perforated Interval	Size	No. of Holes	Perf. Status

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

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*)

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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 surface hole was drilled to 210 ft on this well, and the decision was made to plug and abandon. 200 sacks of cement were pumped into the well and it was plugged and abandoned on 2/16/2016. Please see that attached operations summary reports for further details.

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.

(Continued on page 3)

RECEIVED: Mar. 08, 2016

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-34G4CS	Spud date: 7/24/2015	
Project: UTAH-UINTAH	Site: NBU 922-34H PAD	Rig name no.: PROPETRO 12/12
Event: DRILLING	Start date: 7/24/2015	End date:
Active datum: RKB @4,858.00usft (above Mean Sea Level)	UWI: SE/NE/0/9/S/22/E/34/0/0/26/PM/N/1370/E/0/763/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
7/11/2015	12:00 - 13:00	1.00	DRLCON	2	A	P	0	DRILL 24" CONDUCTOR HOLE TO 40'
	13:00 - 14:00	1.00	DCSGCON	12	E	P	40	SET 14" CONDUCTOR CASING AND CEMENT WITH 81 SX CEMENT
7/24/2015	4:30 - 7:30	3.00	MIRU	01	C	P	40	RIG DOWN, SKID RIG 20 FT AND RIG UP, SET MATTING BOARD, SET RIG IN PLACE ON NBU 1022-9D2BS WELL 2 OF 4, JSA , RIG UP FLOW AND MUD LINES, REVIEW DIRECTIONAL PLANS AND PLATS AND VERIFY LAT/LONGS, VERIFY DIRECTIONAL DRILLERS PLAN IS THE MOST RECENT AND APPROVED VERSION REFERENCE WELLBORE DIAGRAMS FOR EXACT CASING DESIGN AND GENERAL OVERVIEW OF WELLBORE PRIOR TO SPUD
	7:30 - 8:00	0.50	DRLSUR	06	A	P	40	PICK UP NOV 1.83 DEGREE BENT MOTOR (RUN # 3) .17 REV/GAL PICK UP 12.25" BAKER HUGHES DRILL BIT. PICK UP ROTATING HEAD
	8:00 - 9:30	1.50	DRLSUR	02	B	P	40	DRILL 12.25" HOLE F/ 40' - T/ 210 @ 113'PH) WEIGHT ON BIT 10 - 25 K STROKES PER MINUTE = 120 GALLONS PER MINUTE = 491 PRESSURE ON/OFF (BOTTOM) 550/450 ROTARY RPM 55 MOTOR RPM 83 TOTAL RPM 138 UP/DOWN/ ROTATE 25/25/25 K. DRAG 0 K. CIRCULATE CLOSED LOOP SYSTEM WITH 8.5# WATER RUNNING VOLUME THROUGH 2 CENTRIFUGES DEWATERING. RUNNING VOLUME OVER BOTH SHAKERS ISSUES
	9:30 - 10:30	1.00	DRLSUR	06	K	P	210	***FOUND ISSUES WITH SEEPAGE ON SIDE OF LOCATION, PRE JOB SAFETY MEETING, CIRCULATE 15 MINUTES, TRIP OUT OF HOLE LAY DOWN BHA # (12 1/4" BIT),
	10:30 - 11:30	1.00	DRLSUR	21	A	X	210	***WAIT ON ORDERS
	11:30 - 0:00	12.50	RDMO	01	A	X	210	***LAY DOWN BHA RIG DOWN CLEAN PITS, EMPTY UP RIGHTS, LOAD TRAILERS, RIG RELEASED @ 21:30 HRS 7/24/2015
7/25/2015	0:00 - 6:00	6.00	RDMO	01	A	X	210	***LAY DOWN BHA RIG DOWN CLEAN PITS, EMPTY UP RIGHTS, LOAD TRAILERS, RIG RELEASED @ 21:30 HRS 7/24/2015
	6:00 - 0:00	18.00	RDMO	01	E	X	210	MOVE PRO PETRO RIG TO YARD & 2 FRAC TANKS TO JD'S YARD, MOVE ZECO'S EQUIPMENT TO THERE YARD HAD 9 TRUCKS, 1 SWAMPER AND 1 PUSHER
7/26/2015	0:00 - 16:00	16.00	RDMO	01	F	X	210	FINISH LOADING OUT RIG, 6 UPRIGHTS TANKS, CAMPS AND MISCELLANEOUS EQUIPMENT OFF LOCATION.

RECEIVED: Mar. 08, 2016

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-34G4CS	Spud date: 7/24/2015	
Project: UTAH-UINTAH	Site: NBU 922-34H PAD	Rig name no.:
Event: ABANDONMENT	Start date: 2/16/2016	End date: 2/16/2016
Active datum: RKB @4,858.00usft (above Mean Sea Level)	UWI: SE/NE/0/9/S/22/E/34/0/0/26/PM/N/1370/E/0/763/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
2/16/2016	11:00 - 15:00	4.00	ABANDP	51	B	P		SURFACE CASING IS P&A, RUN 210' OF 1" TUBING CIRC SURF CASING WITH 200 SKS OF 15.8# CLASS G CEMENT TO SURFACE. CLEAN UP EQUIP. SDFD

RECEIVED: Mar. 08, 2016