

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 1022-601BS
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>		3. FIELD OR WILDCAT NATURAL BUTTES
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO		5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. OPERATOR PHONE 720 929-6587
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217		9. OPERATOR E-MAIL mary.mondragon@anadarko.com
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU 01195	11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>	
13. NAME OF SURFACE OWNER (if box 12 = 'fee')		12. SURFACE OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')		14. SURFACE OWNER PHONE (if box 12 = 'fee')
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')		16. SURFACE OWNER E-MAIL (if box 12 = 'fee')
18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>		19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	1124 FSL 1567 FEL	SWSE	6	10.0 S	22.0 E	S
Top of Uppermost Producing Zone	1197 FSL 1811 FEL	SWSE	6	10.0 S	22.0 E	S
At Total Depth	1197 FSL 1811 FEL	SWSE	6	10.0 S	22.0 E	S

21. COUNTY UINTAH	22. DISTANCE TO NEAREST LEASE LINE (Feet) 1197	23. NUMBER OF ACRES IN DRILLING UNIT 578
	25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 345	26. PROPOSED DEPTH MD: 9216 TVD: 9200
27. ELEVATION - GROUND LEVEL 5151	28. BOND NUMBER WYB000291	29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496

ATTACHMENTS

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

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP

NAME Danielle Piernot	TITLE Regulatory Analyst	PHONE 720 929-6156
SIGNATURE	DATE 08/24/2009	EMAIL danielle.piernot@anadarko.com
API NUMBER ASSIGNED 43047506860000	APPROVAL  Permit Manager	

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	9216		
Pipe	Grade	Length	Weight			
	Grade I-80 Buttress	9216	11.6			

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	12.25	9.625	0	2275		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	2275	36.0			

T10S, R22E, S.L.B.&M.

Kerr-McGee Oil & Gas Onshore LP

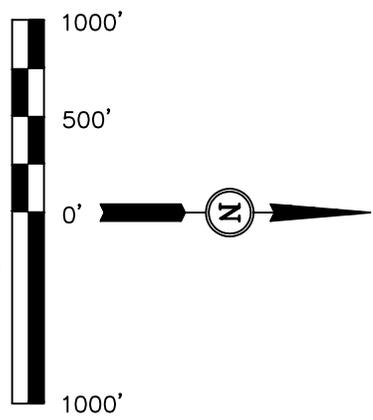
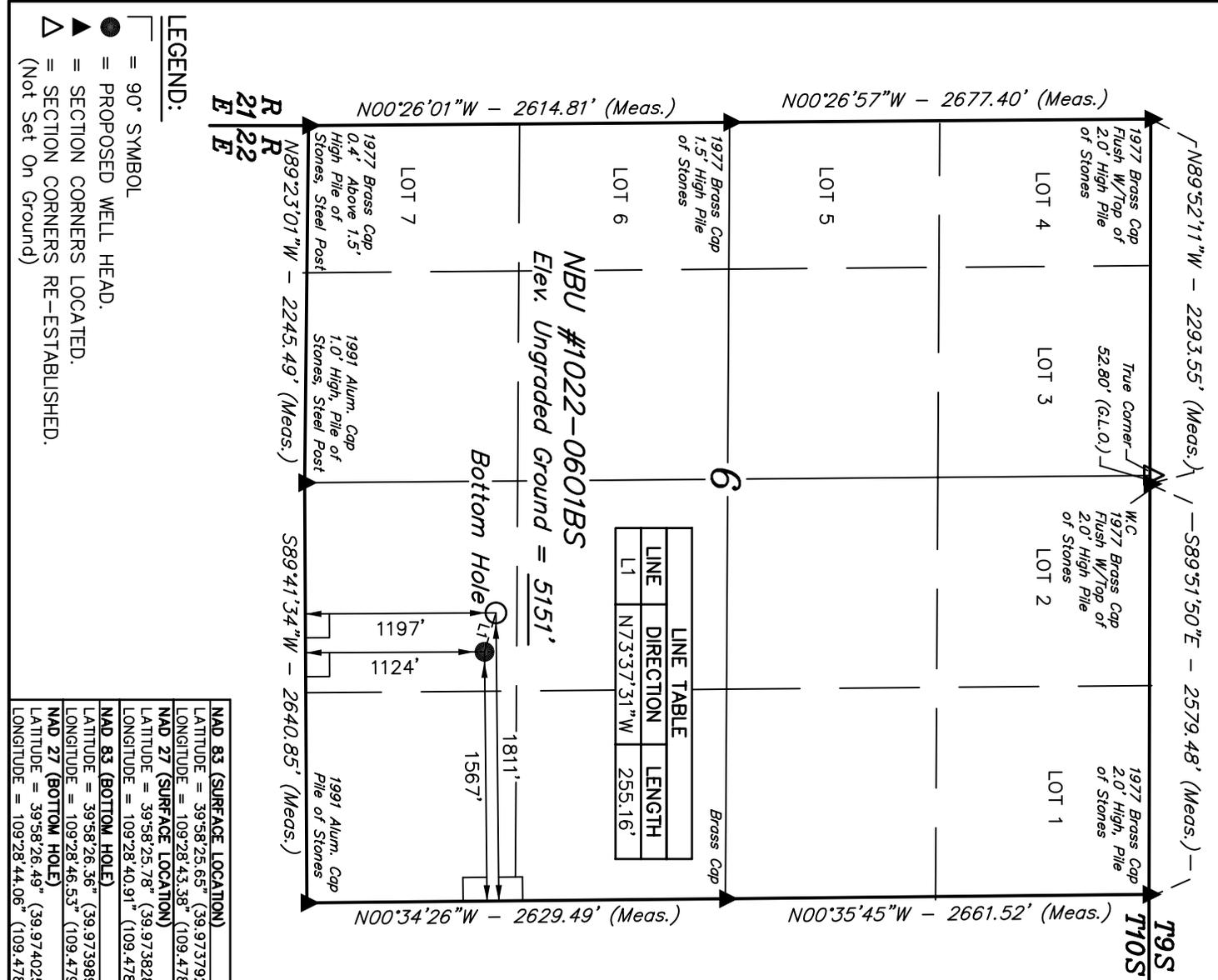
Well location, NBU #1022-0601BS, located as shown in the SW 1/4 SE 1/4 of Section 6, T10S, R22E, S.L.B.&M. Uintah County, Utah.

BASIS OF ELEVATION

TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



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.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

REV: 10-22-08

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE	1" = 1000'	DATE SURVEYED:	8-19-08	DATE DRAWN:	9-04-08
PARTY	D.S. E.D. K.E.	REFERENCES	G.L.O. PLAT		
WEATHER	HOT	FILE	Kerr-McGee Oil & Gas Onshore LP		

- LEGEND:**
- = 90° SYMBOL
 - = PROPOSED WELL HEAD.
 - ▲ = SECTION CORNERS LOCATED.
 - △ = SECTION CORNERS RE-ESTABLISHED. (Not Set On Ground)

NAD 83 (SURFACE LOCATION)	LATITUDE = 39°58'25.65" (39.973792)
	LONGITUDE = 109°28'43.38" (109.478717)
NAD 27 (SURFACE LOCATION)	LATITUDE = 39°58'25.78" (39.973828)
	LONGITUDE = 109°28'40.91" (109.478031)
NAD 83 (BOTTOM HOLE)	LATITUDE = 39°58'26.36" (39.973989)
	LONGITUDE = 109°28'46.53" (109.479592)
NAD 27 (BOTTOM HOLE)	LATITUDE = 39°58'26.49" (39.974025)
	LONGITUDE = 109°28'44.06" (109.478906)



Project: Uintah County, UT NAD27
 Site: NBU 1022-60 Pad
 Well: NBU 1022-601BS
 Wellbore: OH
 Design: Plan #1

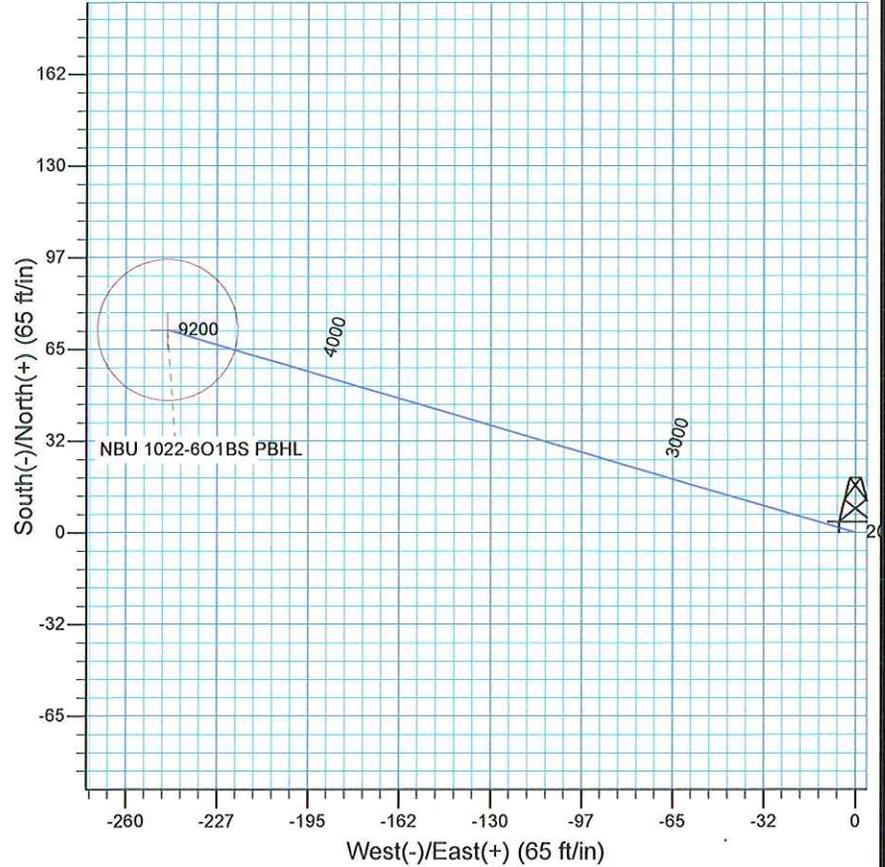
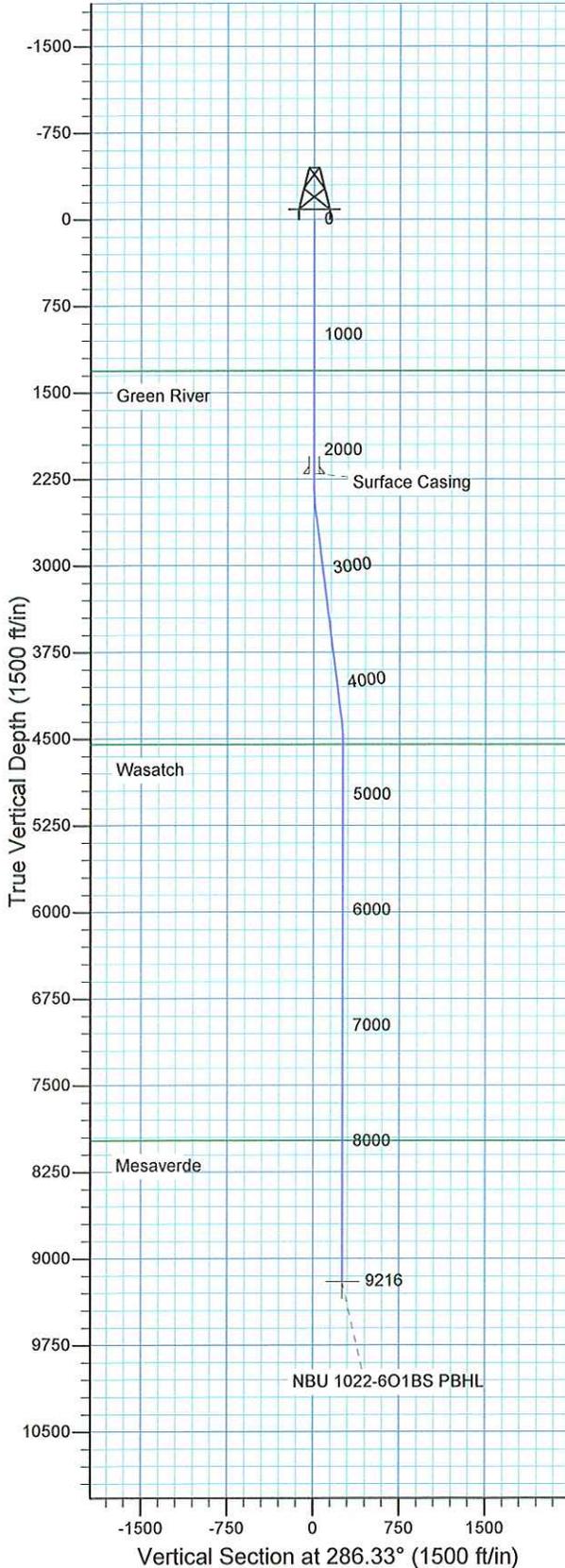
Kerr McGee Oil and Gas Onshore LP



Azimuths to True North
 Magnetic North: 11.39°
 Magnetic Field
 Strength: 52605.0snT
 Dip Angle: 65.92°
 Date: 10/20/2008
 Model: IGRF2005-10

WELL DETAILS: NBU 1022-601BS

GL 5149' & RKB 18' @ 5167.00ft 5149.00
 +N/-S +E/-W Northing Easting Latitude Longitude
 0.00 0.00 603918.04 2566613.33 39° 58' 25.780 N 109° 28' 40.910 W



Plan: Plan #1 (NBU 1022-601BS/OH)
 Created By: Julie Cruse Date: 2008-11-03
 PROJECT DETAILS: Uintah County, UT NAD27
 Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: Utah Central 4302
 Location: Sec 6 T10S R22E
 System Datum: Mean Sea Level
 Local North: True

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	0.00	
2541.89	7.26	286.33	2541.24	4.30	-14.68	3.00	286.33	15.30	
4322.67	7.26	286.33	4307.76	67.56	-230.54	0.00	0.00	240.23	
4564.56	0.00	0.00	4549.00	71.86	-245.22	3.00	180.00	255.53	
9215.56	0.00	0.00	9200.00	71.86	-245.22	0.00	0.00	255.53	NBU 1022-601BS PBHL



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT NAD27
NBU 1022-6O Pad
NBU 1022-6O1BS
OH**

Plan: Plan #1

Standard Planning Report

03 November, 2008



Scientific Drilling
Planning Report

Database:	EDM 2003.16 Multi User DB	Local Co-ordinate Reference:	Well NBU 1022-6O1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5149' & RKB 18' @ 5167.00ft
Project:	Uintah County, UT NAD27	MD Reference:	GL 5149' & RKB 18' @ 5167.00ft
Site:	NBU 1022-6O Pad	North Reference:	True
Well:	NBU 1022-6O1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Uintah County, UT NAD27		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah Central 4302		

Site	NBU 1022-6O Pad, Sec 6 T10S R22E				
Site Position:		Northing:	603,918.07 ft	Latitude:	39° 58' 25.780 N
From:	Lat/Long	Easting:	2,566,613.33 ft	Longitude:	109° 28' 40.910 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	1.30 °

Well	NBU 1022-6O1BS, 1124' FSL 1567' FEL					
Well Position	+N/-S	0.00 ft	Northing:	603,918.04 ft	Latitude:	39° 58' 25.780 N
	+E/-W	0.00 ft	Easting:	2,566,613.33 ft	Longitude:	109° 28' 40.910 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,149.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005-10	10/20/2008	11.39	65.93	52,605

Design	Plan #1			
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	286.33

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	
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,541.89	7.26	286.33	2,541.24	4.30	-14.68	3.00	3.00	0.00	286.33	
4,322.67	7.26	286.33	4,307.76	67.56	-230.54	0.00	0.00	0.00	0.00	
4,564.56	0.00	0.00	4,549.00	71.86	-245.22	3.00	-3.00	0.00	180.00	
9,215.56	0.00	0.00	9,200.00	71.86	-245.22	0.00	0.00	0.00	0.00	NBU 1022-6O1BS PE



Scientific Drilling
Planning Report

Database: EDM 2003.16 Multi User DB
 Company: Kerr McGee Oil and Gas Onshore LP
 Project: Uintah County, UT NAD27
 Site: NBU 1022-6O Pad
 Well: NBU 1022-6O1BS
 Wellbore: OH
 Design: Plan #1

Local Co-ordinate Reference: Well NBU 1022-6O1BS
 TVD Reference: GL 5149' & RKB 18' @ 5167.00ft
 MD Reference: GL 5149' & RKB 18' @ 5167.00ft
 North Reference: True
 Survey Calculation Method: Minimum Curvature

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	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,310.00	0.00	0.00	1,310.00	0.00	0.00	0.00	0.00	0.00	0.00	
Green River										
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
Surface Casing										
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,400.00	3.00	286.33	2,399.95	0.74	-2.51	2.62	3.00	3.00	0.00	
2,500.00	6.00	286.33	2,499.63	2.94	-10.04	10.46	3.00	3.00	0.00	
2,541.89	7.26	286.33	2,541.24	4.30	-14.68	15.30	3.00	3.00	0.00	
2,600.00	7.26	286.33	2,598.89	6.37	-21.72	22.64	0.00	0.00	0.00	
2,700.00	7.26	286.33	2,698.09	9.92	-33.85	35.27	0.00	0.00	0.00	
2,800.00	7.26	286.33	2,797.29	13.47	-45.97	47.90	0.00	0.00	0.00	
2,900.00	7.26	286.33	2,896.49	17.02	-58.09	60.53	0.00	0.00	0.00	
3,000.00	7.26	286.33	2,995.68	20.57	-70.21	73.16	0.00	0.00	0.00	
3,100.00	7.26	286.33	3,094.88	24.13	-82.33	85.79	0.00	0.00	0.00	
3,200.00	7.26	286.33	3,194.08	27.68	-94.45	98.43	0.00	0.00	0.00	
3,300.00	7.26	286.33	3,293.28	31.23	-106.58	111.06	0.00	0.00	0.00	
3,400.00	7.26	286.33	3,392.48	34.78	-118.70	123.69	0.00	0.00	0.00	
3,500.00	7.26	286.33	3,491.68	38.34	-130.82	136.32	0.00	0.00	0.00	
3,600.00	7.26	286.33	3,590.88	41.89	-142.94	148.95	0.00	0.00	0.00	
3,700.00	7.26	286.33	3,690.08	45.44	-155.06	161.58	0.00	0.00	0.00	
3,800.00	7.26	286.33	3,789.28	48.99	-167.18	174.21	0.00	0.00	0.00	
3,900.00	7.26	286.33	3,888.48	52.54	-179.30	186.84	0.00	0.00	0.00	
4,000.00	7.26	286.33	3,987.67	56.10	-191.43	199.48	0.00	0.00	0.00	
4,100.00	7.26	286.33	4,086.87	59.65	-203.55	212.11	0.00	0.00	0.00	
4,200.00	7.26	286.33	4,186.07	63.20	-215.67	224.74	0.00	0.00	0.00	
4,300.00	7.26	286.33	4,285.27	66.75	-227.79	237.37	0.00	0.00	0.00	
4,322.67	7.26	286.33	4,307.76	67.56	-230.54	240.23	0.00	0.00	0.00	
4,400.00	4.94	286.33	4,384.65	69.87	-238.42	248.45	3.00	-3.00	0.00	
4,500.00	1.94	286.33	4,484.46	71.55	-244.17	254.44	3.00	-3.00	0.00	
4,564.56	0.00	0.00	4,549.00	71.86	-245.22	255.53	3.00	-3.00	0.00	
Wasatch										



Scientific Drilling
Planning Report

Database:	EDM 2003.16 Multi User DB	Local Co-ordinate Reference:	Well NBU 1022-6O1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5149' & RKB 18' @ 5167.00ft
Project:	Uintah County, UT NAD27	MD Reference:	GL 5149' & RKB 18' @ 5167.00ft
Site:	NBU 1022-6O Pad	North Reference:	True
Well:	NBU 1022-6O1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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)
4,600.00	0.00	0.00	4,584.44	71.86	-245.22	255.53	0.00	0.00	0.00
4,700.00	0.00	0.00	4,684.44	71.86	-245.22	255.53	0.00	0.00	0.00
4,800.00	0.00	0.00	4,784.44	71.86	-245.22	255.53	0.00	0.00	0.00
4,900.00	0.00	0.00	4,884.44	71.86	-245.22	255.53	0.00	0.00	0.00
5,000.00	0.00	0.00	4,984.44	71.86	-245.22	255.53	0.00	0.00	0.00
5,100.00	0.00	0.00	5,084.44	71.86	-245.22	255.53	0.00	0.00	0.00
5,200.00	0.00	0.00	5,184.44	71.86	-245.22	255.53	0.00	0.00	0.00
5,300.00	0.00	0.00	5,284.44	71.86	-245.22	255.53	0.00	0.00	0.00
5,400.00	0.00	0.00	5,384.44	71.86	-245.22	255.53	0.00	0.00	0.00
5,500.00	0.00	0.00	5,484.44	71.86	-245.22	255.53	0.00	0.00	0.00
5,600.00	0.00	0.00	5,584.44	71.86	-245.22	255.53	0.00	0.00	0.00
5,700.00	0.00	0.00	5,684.44	71.86	-245.22	255.53	0.00	0.00	0.00
5,800.00	0.00	0.00	5,784.44	71.86	-245.22	255.53	0.00	0.00	0.00
5,900.00	0.00	0.00	5,884.44	71.86	-245.22	255.53	0.00	0.00	0.00
6,000.00	0.00	0.00	5,984.44	71.86	-245.22	255.53	0.00	0.00	0.00
6,100.00	0.00	0.00	6,084.44	71.86	-245.22	255.53	0.00	0.00	0.00
6,200.00	0.00	0.00	6,184.44	71.86	-245.22	255.53	0.00	0.00	0.00
6,300.00	0.00	0.00	6,284.44	71.86	-245.22	255.53	0.00	0.00	0.00
6,400.00	0.00	0.00	6,384.44	71.86	-245.22	255.53	0.00	0.00	0.00
6,500.00	0.00	0.00	6,484.44	71.86	-245.22	255.53	0.00	0.00	0.00
6,600.00	0.00	0.00	6,584.44	71.86	-245.22	255.53	0.00	0.00	0.00
6,700.00	0.00	0.00	6,684.44	71.86	-245.22	255.53	0.00	0.00	0.00
6,800.00	0.00	0.00	6,784.44	71.86	-245.22	255.53	0.00	0.00	0.00
6,900.00	0.00	0.00	6,884.44	71.86	-245.22	255.53	0.00	0.00	0.00
7,000.00	0.00	0.00	6,984.44	71.86	-245.22	255.53	0.00	0.00	0.00
7,100.00	0.00	0.00	7,084.44	71.86	-245.22	255.53	0.00	0.00	0.00
7,200.00	0.00	0.00	7,184.44	71.86	-245.22	255.53	0.00	0.00	0.00
7,300.00	0.00	0.00	7,284.44	71.86	-245.22	255.53	0.00	0.00	0.00
7,400.00	0.00	0.00	7,384.44	71.86	-245.22	255.53	0.00	0.00	0.00
7,500.00	0.00	0.00	7,484.44	71.86	-245.22	255.53	0.00	0.00	0.00
7,600.00	0.00	0.00	7,584.44	71.86	-245.22	255.53	0.00	0.00	0.00
7,700.00	0.00	0.00	7,684.44	71.86	-245.22	255.53	0.00	0.00	0.00
7,800.00	0.00	0.00	7,784.44	71.86	-245.22	255.53	0.00	0.00	0.00
7,900.00	0.00	0.00	7,884.44	71.86	-245.22	255.53	0.00	0.00	0.00
7,993.56	0.00	0.00	7,978.00	71.86	-245.22	255.53	0.00	0.00	0.00
Mesaverde									
8,000.00	0.00	0.00	7,984.44	71.86	-245.22	255.53	0.00	0.00	0.00
8,100.00	0.00	0.00	8,084.44	71.86	-245.22	255.53	0.00	0.00	0.00
8,200.00	0.00	0.00	8,184.44	71.86	-245.22	255.53	0.00	0.00	0.00
8,300.00	0.00	0.00	8,284.44	71.86	-245.22	255.53	0.00	0.00	0.00
8,400.00	0.00	0.00	8,384.44	71.86	-245.22	255.53	0.00	0.00	0.00
8,500.00	0.00	0.00	8,484.44	71.86	-245.22	255.53	0.00	0.00	0.00
8,600.00	0.00	0.00	8,584.44	71.86	-245.22	255.53	0.00	0.00	0.00
8,700.00	0.00	0.00	8,684.44	71.86	-245.22	255.53	0.00	0.00	0.00
8,800.00	0.00	0.00	8,784.44	71.86	-245.22	255.53	0.00	0.00	0.00
8,900.00	0.00	0.00	8,884.44	71.86	-245.22	255.53	0.00	0.00	0.00
9,000.00	0.00	0.00	8,984.44	71.86	-245.22	255.53	0.00	0.00	0.00
9,100.00	0.00	0.00	9,084.44	71.86	-245.22	255.53	0.00	0.00	0.00
9,200.00	0.00	0.00	9,184.44	71.86	-245.22	255.53	0.00	0.00	0.00
9,215.56	0.00	0.00	9,200.00	71.86	-245.22	255.53	0.00	0.00	0.00



Scientific Drilling
Planning Report

Database:	EDM 2003.16 Multi User DB	Local Co-ordinate Reference:	Well NBU 1022-6O1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5149' & RKB 18' @ 5167.00ft
Project:	Uintah County, UT NAD27	MD Reference:	GL 5149' & RKB 18' @ 5167.00ft
Site:	NBU 1022-6O Pad	North Reference:	True
Well:	NBU 1022-6O1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
NBU 1022-6O1BS PBHL - hit/miss target - Shape - plan hits target center - Circle (radius 25.00)	0.00	0.00	9,200.00	71.86	-245.22	603,984.34	2,566,366.55	39° 58' 26.490 N	109° 28' 44.060 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,200.00	2,200.00	Surface Casing	9.625	13.500

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,310.00	1,310.00	Green River		0.00	
4,564.56	4,549.00	Wasatch		0.00	
7,993.56	7,978.00	Mesaverde		0.00	

NBU 1022-601BS

Pad: NBU 1022-60

Surface: 1,124' FSL 1,567' FEL (SW/4SE/4)

BHL: 1,197' FSL 1,811' FEL (SW/4SE/4)

Sec. 6 T10S R22E

Uintah, Utah

Mineral Lease: UTU 01195

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. – 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 – Surface	
Green River	1,267'	
Birds Nest	1,595'	Water
Mahogany	2,071'	Water
Wasatch	4,505'	Gas
Mesaverde	7,064'	Gas
MVU2	7,969'	Gas
MVL1	8,598'	Gas
TVD	9,200'	
TD	9,216'	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program.

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.

7. Abnormal Conditions:

Maximum anticipated bottomhole pressure calculated at 9,200' TVD, approximately equals 5,493 psi (calculated at 0.60 psi/foot).

Maximum anticipated surface pressure equals approximately 3,469 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates:

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

9. Variances:

Please refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- *Blowout Prevention Equipment (BOPE) requirements;*
- *Mud program requirements; and*
- *Special drilling operation (surface equipment placement) requirements associated with air drilling.*

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12-1/4 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 12-1/4 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 9-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Variance for FIT Requirements

KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). The air rig operation utilizes a 5M BOPE when drilling. This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3,520	2,020	453,000
SURFACE	9-5/8"	0 to 2,275	36.00	J-55	LTC	0.98	1.90	7.04
PRODUCTION	4-1/2"	0 to 9,216	11.60	I-80	BTC	2.18	1.13	2.98

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)
 (Burst Assumptions: TD = 11.7 ppg) 0.22 psi/ft = gradient for partially evac wellbore
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MASP 3,469 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD
 (Burst Assumptions: TD = 11.7 ppg) 0.6 psi/ft = bottomhole gradient
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MABHP 5,493 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	215	60%	15.60	1.18
Option 1							
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele Premium cmt + 2% CaCl	380	0%	15.60	1.18
SURFACE			NOTE: If well will circulate water to surface, option 2 will be utilized				
Option 2	LEAD	1,775'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	420	35%	12.60	1.81
	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	3,996'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	380	40%	11.00	3.38
	TAIL	5,220'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,280	40%	14.30	1.31

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

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

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

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.

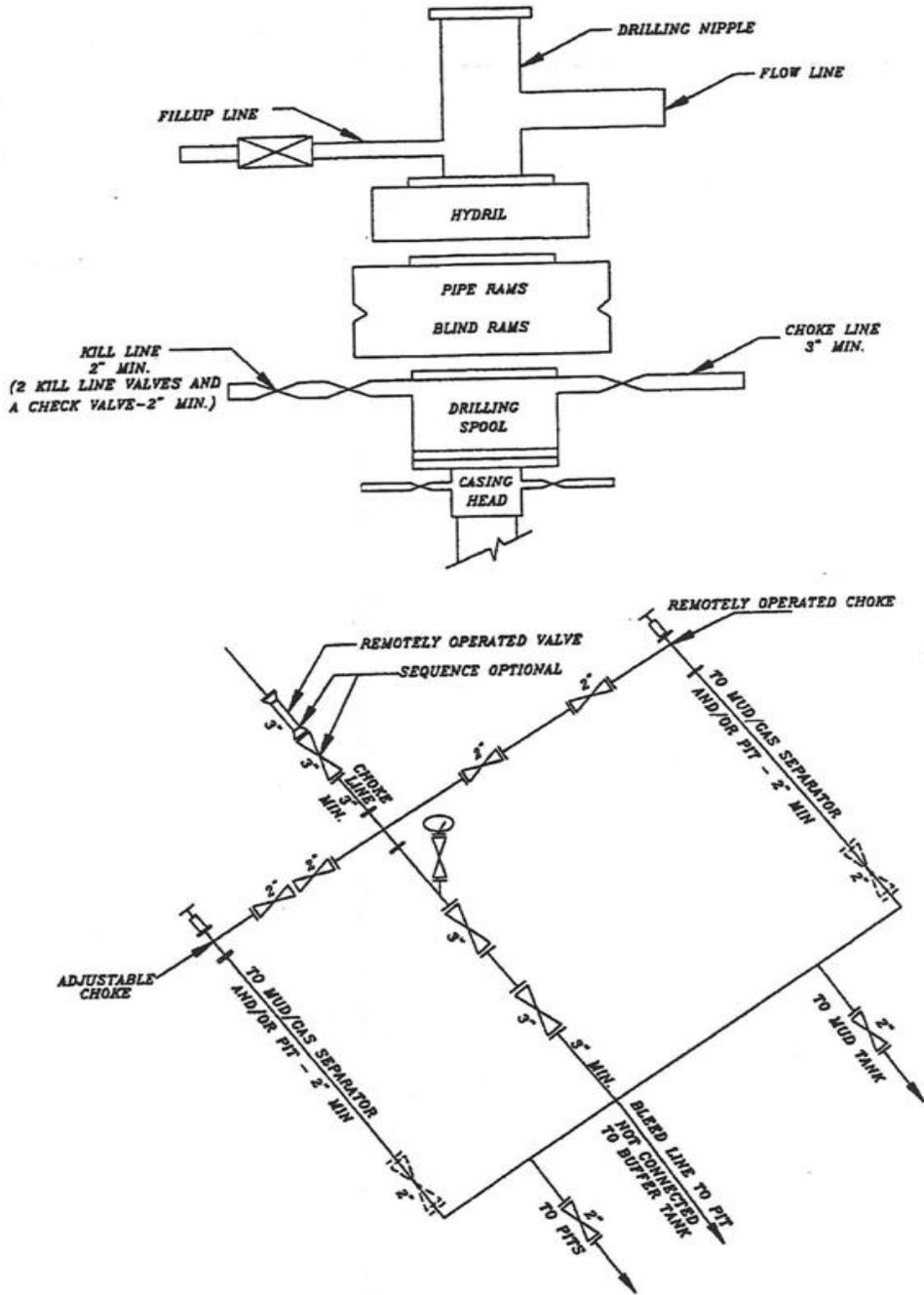
DRILLING ENGINEER: _____
John Huycke / Emile Goodwin

DATE: _____

DRILLING SUPERINTENDENT: _____
John Merkel / Lovel Young

DATE: _____

EXHIBIT A NBU 1022-601BS



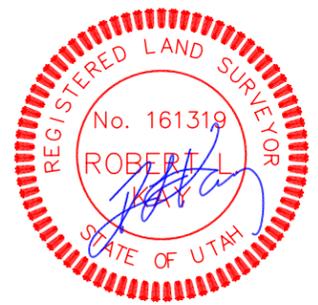
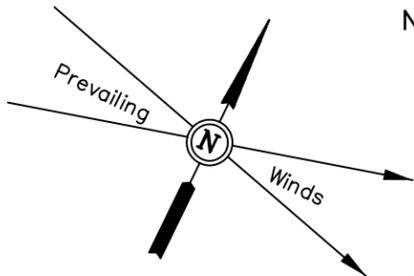
SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

Kerr-McGee Oil & Gas Onshore LP

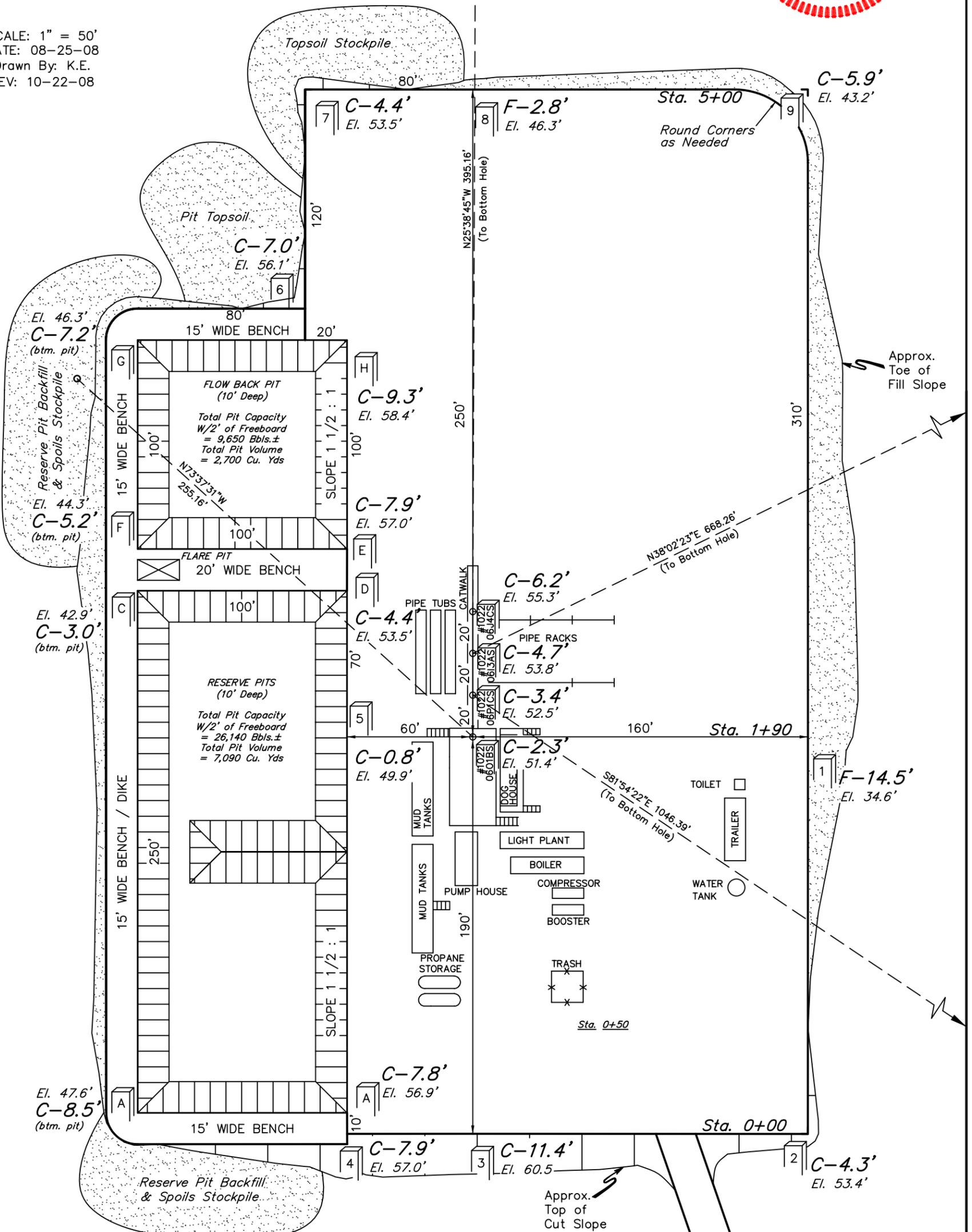
SITE PLAN LAYOUT FOR

NBU #1022-0601BS, #1022-06P1CS, #1022-06J4CS, #1022-06I3AS
SECTION 6, T10S, R22E, S.L.B.&M.

FIGURE #1



SCALE: 1" = 50'
DATE: 08-25-08
Drawn By: K.E.
REV: 10-22-08



NOTES:

Elev. Ungraded Ground At Loc. Stake #1022-0601BS= 5151.4'
FINISHED GRADE ELEV. AT LOC. STAKE #1022-0601BS= 5149.1'

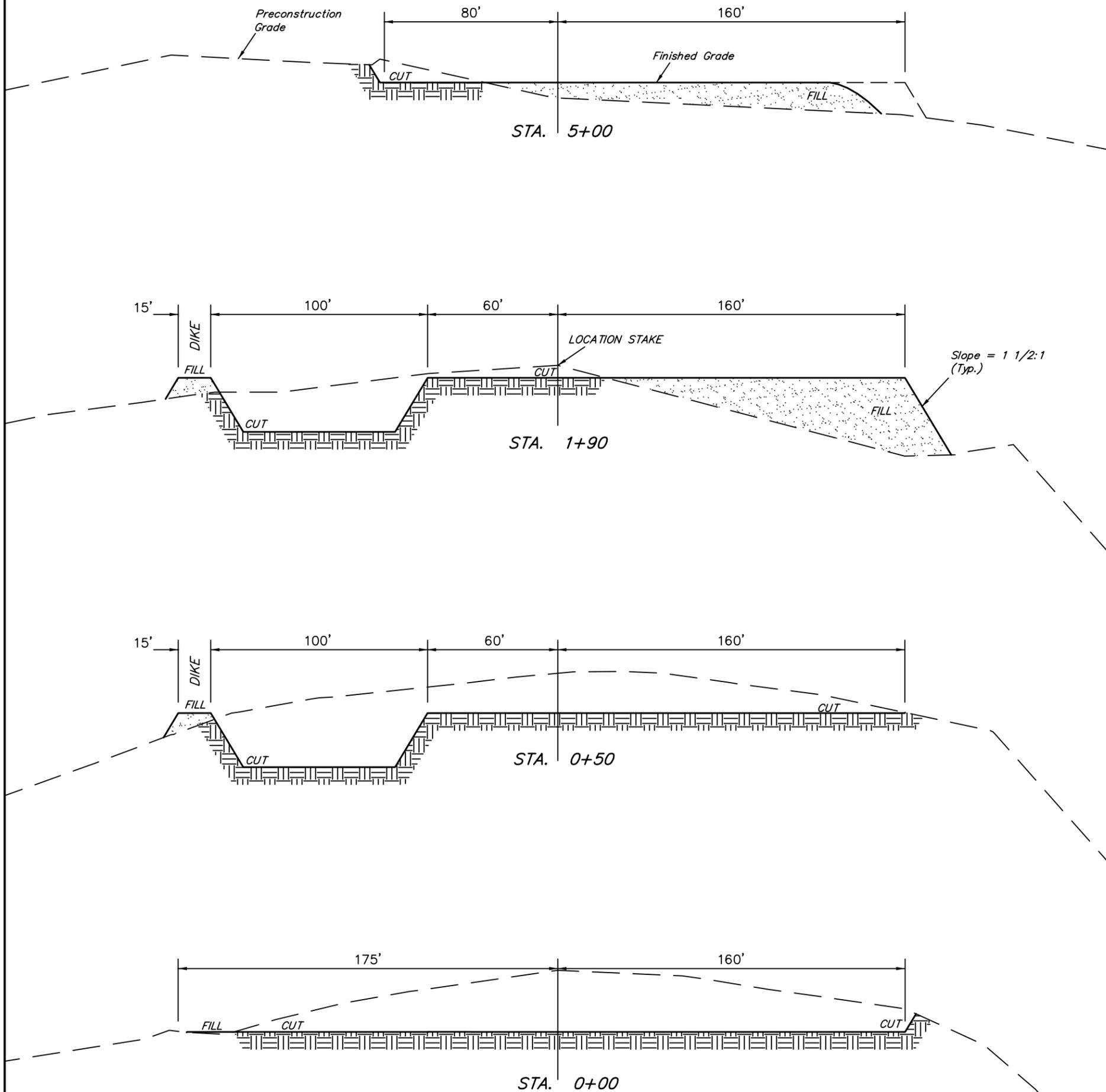
Kerr-McGee Oil & Gas Onshore LP

TYPICAL CROSS SECTIONS FOR

NBU #1022-0601BS, #1022-06P1CS, #1022-06J4CS, #1022-06I3AS
SECTION 6, T10S, R22E, S.L.B.&M.

FIGURE #2

1" = 20'
X-Section Scale
1" = 50'
DATE: 08-25-08
Drawn By: K.E.



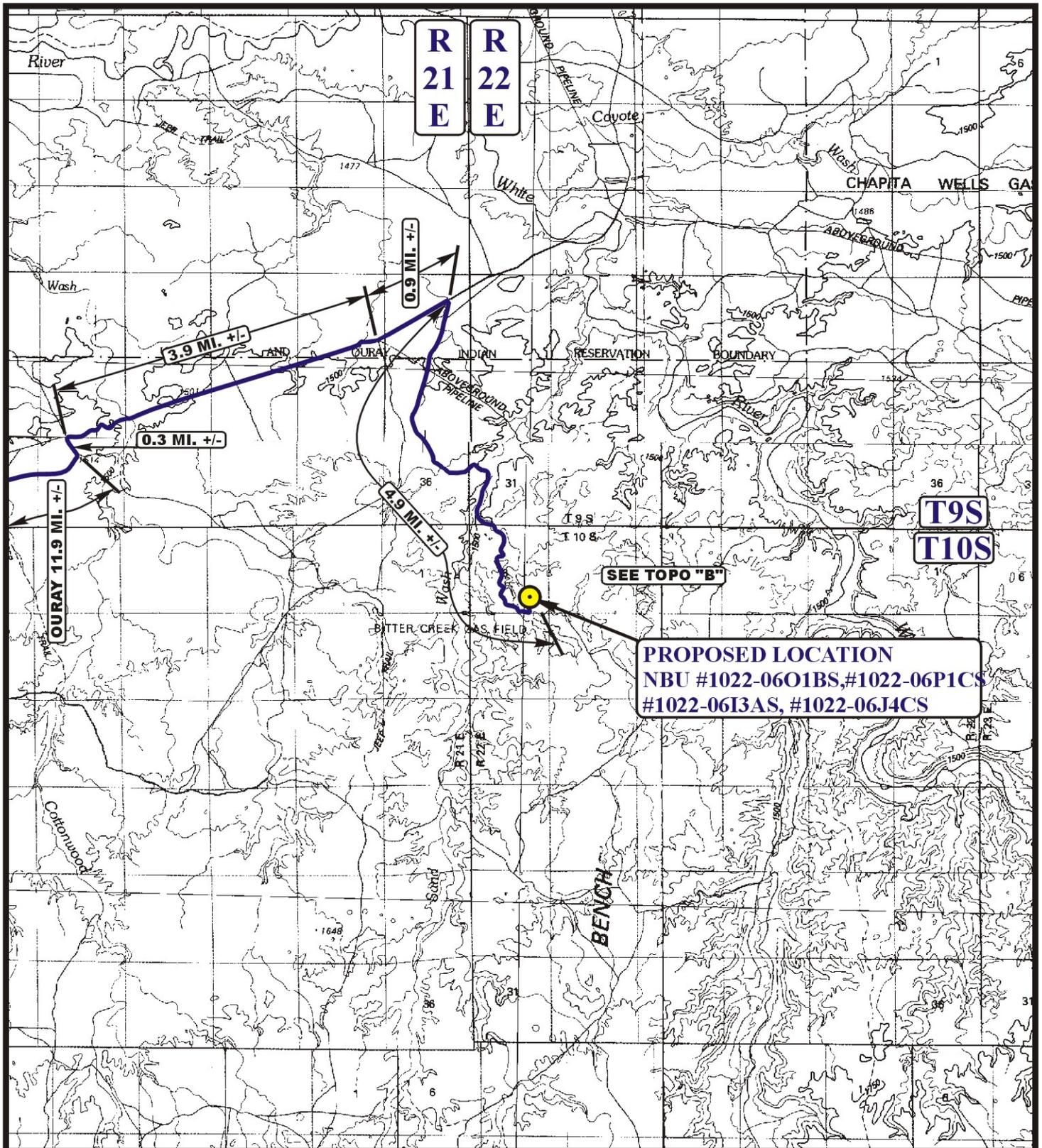
NOTE:
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

* NOTE:
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 3,330 Cu. Yds.
Remaining Location	= 20,100 Cu. Yds.
TOTAL CUT	= 23,430 CU.YDS.
FILL	= 13,750 CU.YDS.

EXCESS MATERIAL	= 9,680 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 9,680 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 0 Cu. Yds.



LEGEND:

 PROPOSED LOCATION



Kerr-McGee Oil & Gas Onshore LP

NBU #1022-06O1BS, #1022-06P1CS,
 #1022-06I3AS, #1022-06J4CS
 SECTION 6, T10S, R22E, S.L.B.&M.
 SW 1/4 SE 1/4



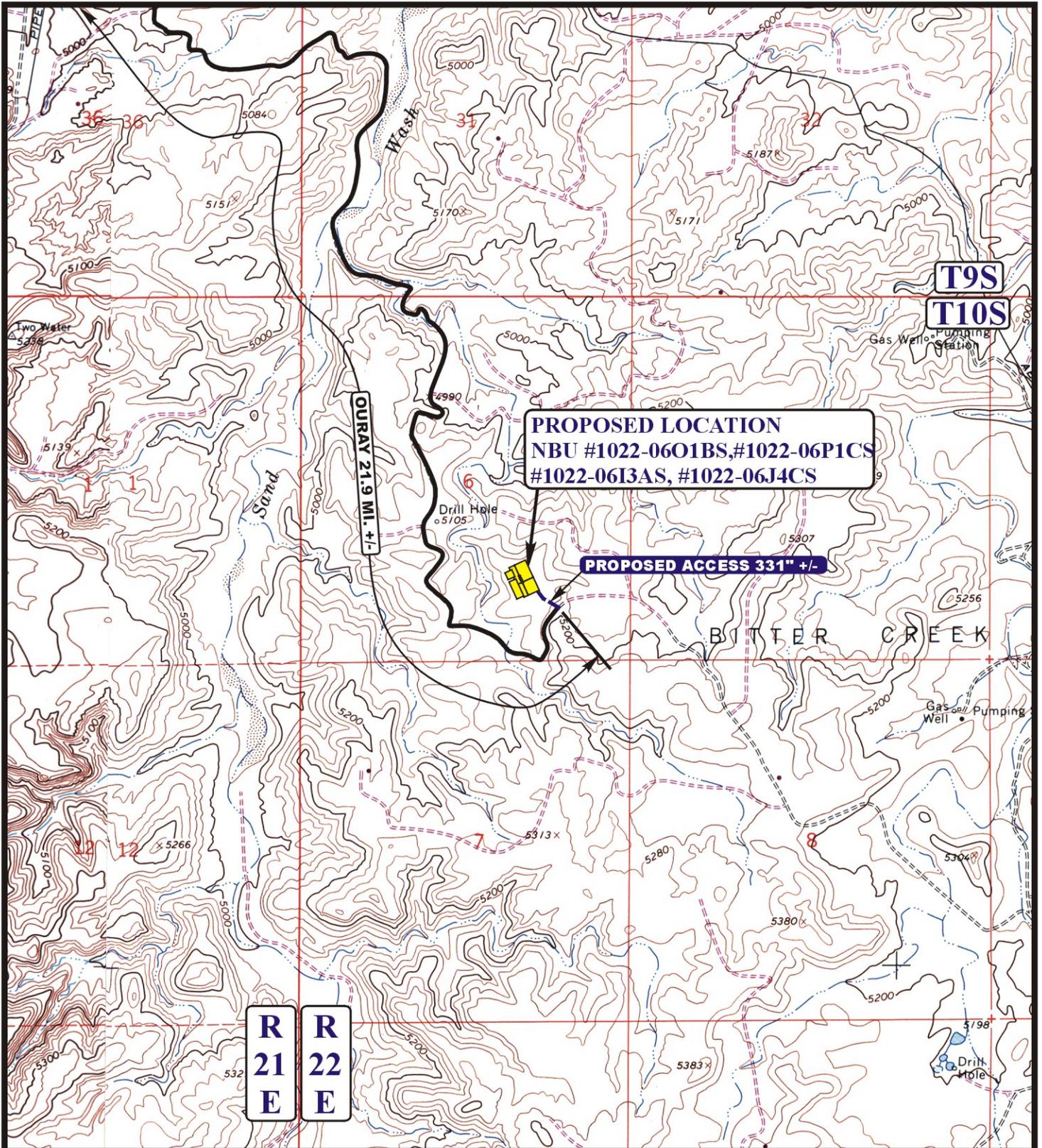
Utah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC
MAP

09 11 08
 MONTH DAY YEAR



SCALE: 1:100,000 DRAWN BY: J.H. REVISED: 00-00-00



LEGEND:

-  EXISTING ROAD
-  PROPOSED ACCESS ROAD

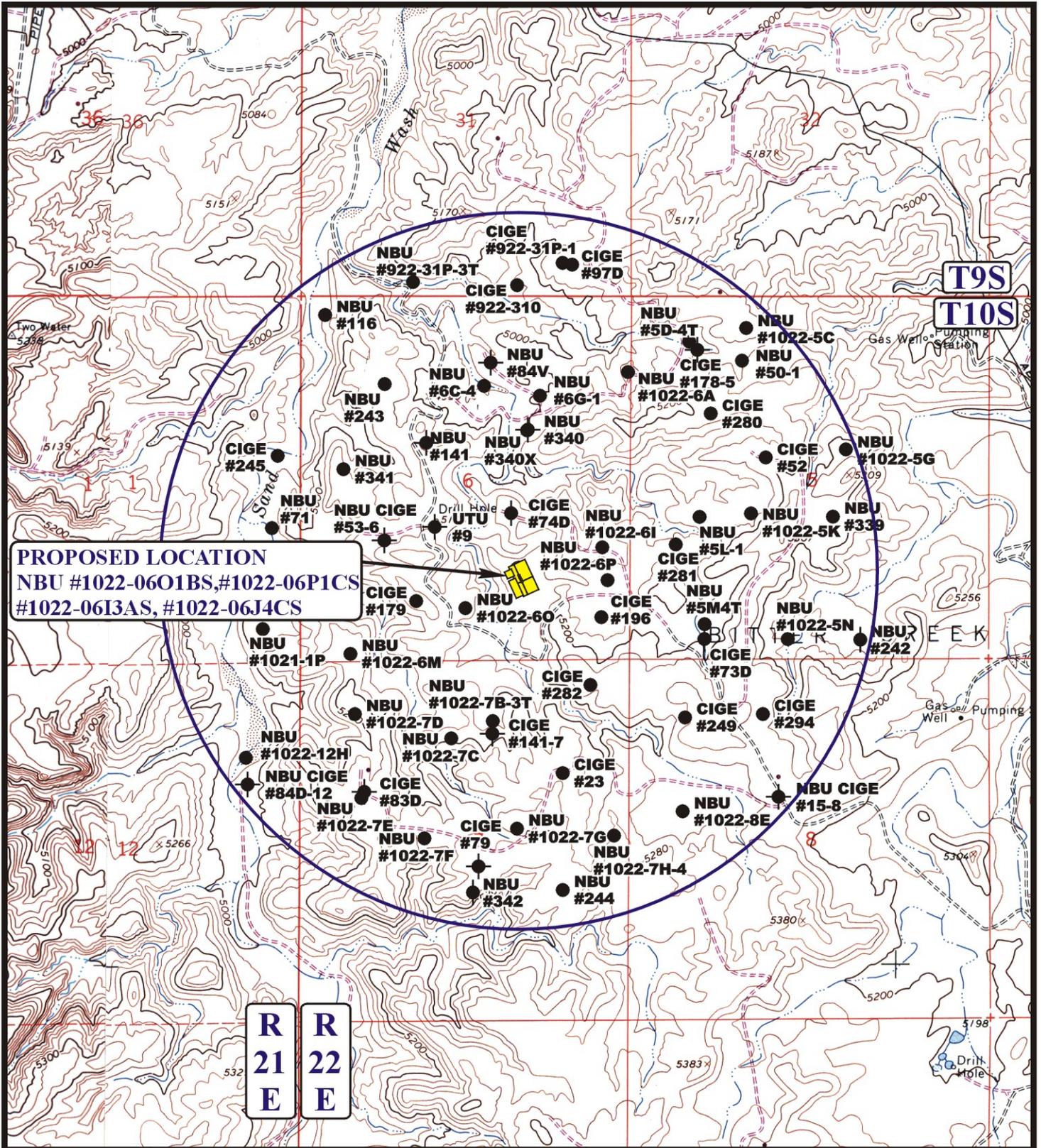
Kerr-McGee Oil & Gas Onshore LP

NBU #1022-06O1BS, #1022-06P1CS,
 #1022-06I3AS, #1022-06J4CS
 SECTION 6, T10S, R22E, S.L.B.&M.
 SW 1/4 SE 1/4

UES Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813



TOPOGRAPHIC MAP 09 11 08
 MONTH DAY YEAR
 SCALE: 1" = 2000' DRAWN BY: J.H. REVISED: 00-00-00 **B TOPO**



LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

Kerr-McGee Oil & Gas Onshore LP

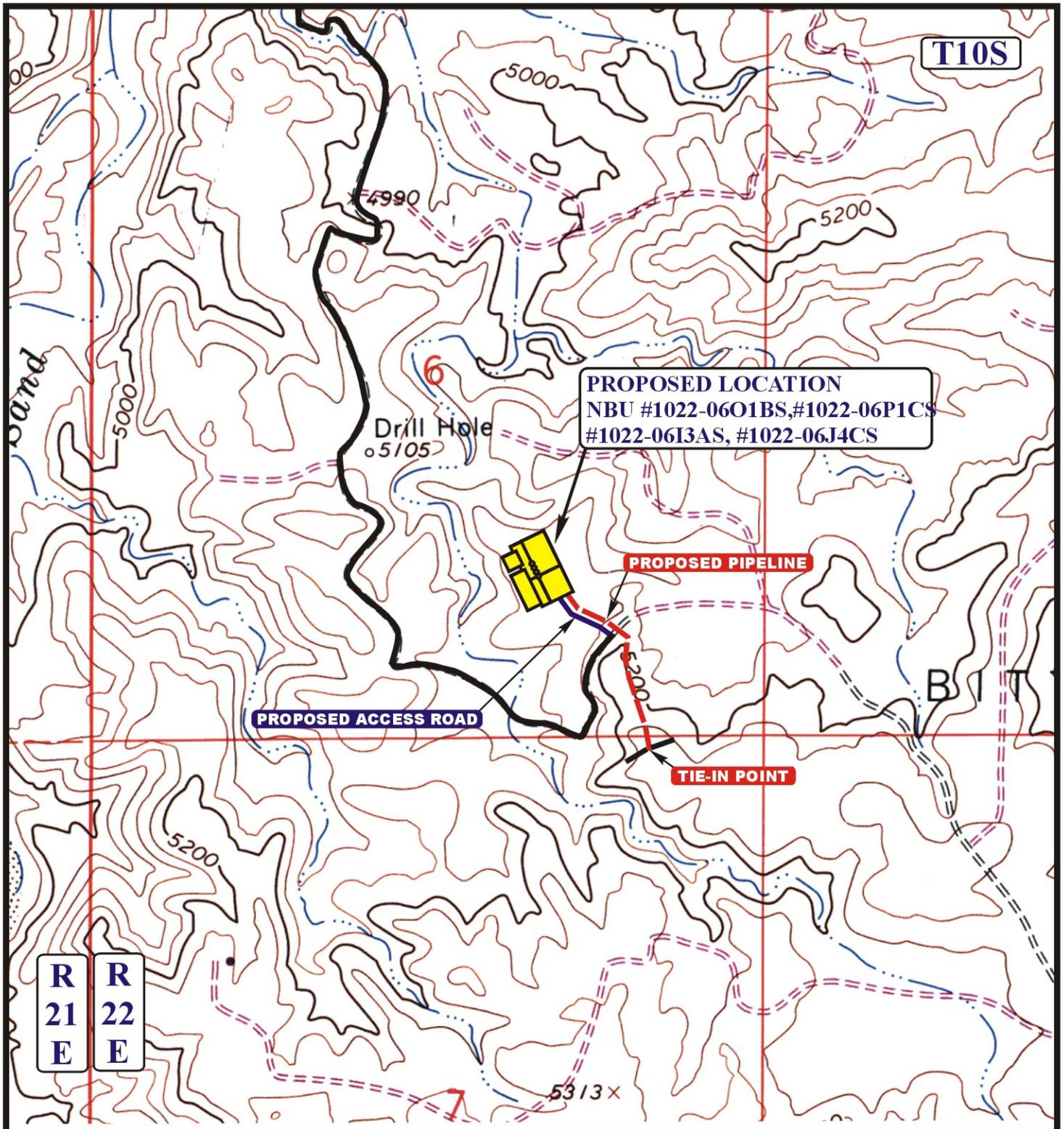
NBU #1022-06O1BS, #1022-06P1CS,
 #1022-06I3AS, #1022-06J4CS
 SECTION 6, T10S, R22E, S.L.B.&M.
 SW 1/4 SE 1/4

UES Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813



TOPOGRAPHIC MAP 09 11 08
 MONTH DAY YEAR
 SCALE: 1" = 2000' DRAWN BY: J.H. REVISED: 00-00-00





APPROXIMATE TOTAL PIPELINE DISTANCE = 1441' +/-

LEGEND:

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE

Kerr-McGee Oil & Gas Onshore LP

NBU #1022-06O1BS, #1022-06P1CS,
 #1022-06I3AS, #1022-06J4CS
 SECTION 6, T10S, R22E, S.L.B.&M.
 SW 1/4 SE 1/4



Utah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813



**TOPOGRAPHIC
 MAP**

09 11 08
 MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: J.H. REVISED: 00-00-00

**D
 TOPO**

Kerr-McGee Oil & Gas Onshore LP

NBU #1022-06O1BS, #1022-06P1CS, #1022-06I3AS, #1022-06J4CS

LOCATED IN UINTAH COUNTY, UTAH
SECTION 6, T10S, R22E, S.L.B.&M.



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHWESTERLY



UELS Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

LOCATION PHOTOS

09 11 08
MONTH DAY YEAR

PHOTO

TAKEN BY: D.S.

DRAWN BY: J.H.

REVISED: 00-00-00

Kerr-McGee Oil & Gas Onshore LP

NBU #1022-06O1BS, #1022-06P1CS, #1022-06I3AS, #1022-06J4CS

PIPELINE ALIGNMENT

LOCATED IN UINTAH COUNTY, UTAH

SECTION 6, T10S, R22E, S.L.B.&M.



PHOTO: VIEW FROM TIE-IN POINT

CAMERA ANGLE: NORTHWESTERLY



PHOTO: VIEW OF PIPELINE ALIGNMENT

CAMERA ANGLE: NORTHWESTERLY



- Since 1964 -

UELS Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

PIPELINE PHOTOS

09 11 08
MONTH DAY YEAR

PHOTO

TAKEN BY: D.S.

DRAWN BY: J.H.

REVISED: 00-00-00

**Kerr-McGee Oil & Gas Onshore LP
NBU #1022-06O1BS, #1022-06P1CS,
#1022-06I3AS, #1022-06J4CS
SECTION 6, T10S, R22E, S.L.B.&M.**

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 6.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN EASTERLY DIRECTION APPROXIMATELY 5.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 3.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 4.9 MILES TO THE JUNCTION OF THIS ROAD AND THE PROPOSED ACCESS TO THE NORTHWEST; FOLLOW ROAD FLAGS IN A NORTHWESTERLY DIRECTION APPROXIMATELY 331' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 52.9 MILES.

NBU 1022-6I3AS

Surface: 1,160' FSL 1,584' FEL (SW/4SE/4)

BHL: 1,684' FSL 1,167' FEL (NE/4SE/4)

NBU 1022-6J4CS

Surface: 1,178' FSL 1,593' FEL (SW/4SE/4)

BHL: 1,535' FSL 1,760' FEL (NW/4SE/4)

NBU 1022-6O1BS

Surface: 1,124' FSL 1,567' FEL (SW/4SE/4)

BHL: 1,197' FSL 1,811' FEL (SW/4SE/4)

NBU 1022-6P1CS

Surface: 1,142' FSL 1,575' FEL (SW/4SE/4)

BHL: 989' FSL 541' FEL (SE/4SE/4)

Mineral Lease: UTU 01195

Pad: NBU 1022-6O

Sec. 6 T10S R22E

Uintah, Utah

ONSHORE ORDER NO. 1

***MULTI-POINT SURFACE USE & OPERATIONS PLAN
SUBMITTED WITH SITE-SPECIFIC INFORMATION***

This Application for Permit to Drill (APD) is filed under the Notice of Staking (NOS) process as stated in Onshore Order No. 1 (OSO #1) and supporting Bureau of Land Management (BLM) documents. An NOS was submitted showing the surface locations in SW/4 SE/4 of Section 6 T10S R22E.

This Surface Use Plan of Operations (SUPO) or 13-point plan provides the site-specific information for the above-referenced wells. This information is to be incorporated by reference into the Master Development Plan (MDP) for Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee). The MDP is available upon request from the BLM-Vernal Field Office.

To schedule an onsite please contact Raleen White at 720-929-6666.

Directional Drilling:

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, this well will be directionally drilled in order to access portions of our lease which are otherwise inaccessible due to topography.

1. Existing Roads:

- A) Refer to Topo Map A for directions to the location.
- B) Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

2. **Planned Access Roads:**

See MDP for additional details on road construction.

Approximately $\pm 331'$ (± 0.06 miles) of new access road is proposed. Please refer to the attached Topo Map B. No pipelines will be crossed with the new construction.

Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site and are typically shown on the attached Exhibits and Topo maps.

3. **Location of Existing Wells Within a 1-Mile Radius:**

Please refer to Topo Map C.

4. **Location of Existing and Proposed Facilities:**

See MDP for additional details on Existing and Proposed Facilities.

The following guidelines will apply if the well is productive.

Approximately $\pm 1,441'$ (± 0.27 miles) of pipeline is proposed. Refer to Topo D for the existing pipeline. Pipeline segments will be welded or zaplocked together on disturbed areas in or near the location, whenever possible, and dragged into place.

Per request from the onsite meeting, corner 10 of the well pad will be rounded.

5. **Location and Type of Water Supply:**

See MDP for additional details on Location and Type of Water Supply.

Water for drilling purposes will be obtained from one of the following sources:

- Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim number 43-8496, application number 53617.
- Price Water Pumping Inc. Green River and White River, various sources, Water Right Number 49-1659, application number: a35745.

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

No water well is to be drilled on this lease.

6. **Source of Construction Materials:**

See MDP for additional details on Source of Construction Materials.

7. **Methods of Handling Waste Materials:**

See MDP for additional details on Methods of Handling Waste Materials.

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites:

RNI in Sec. 5 T9S R22E
NBU #159 in Sec. 35 T9S R21E
Ace Oilfield in Sec. 2 T6S R20E
MC&MC in Sec. 12 T6S R19E
Pipeline Facility in Sec. 36 T9S R20E
Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E
Bonanza Evaporation Pond in Sec. 2 T10S R23E

8. Ancillary Facilities:

See MDP for additional details on Ancillary Facilities.

None are anticipated.

9. Well Site Layout: (See Location Layout Diagram)

See MDP for additional details on Well Site Layout.

All pits will be fenced according to the following minimum standards:

- Net wire (39-inch) will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.
- The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.
- Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.
- All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

10. Plans for Reclamation of the Surface:

See MDP for additional details on Plans for Reclamation of the Surface.

11. Surface/Mineral Ownership:

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

12. Other Information:

See MDP for additional details on Other Information.

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

Kathy Schneebeck Dulnoan
Regulatory Analyst
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6007

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.



Kathy Schneebeck Dulnoan

August 24, 2009

Date



Kerr-McGee Oil & Gas Onshore LP
P.O. Box 173779
Denver, CO 80217-37795

August 12, 2009

Ms. Diana Mason
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-6100

Re: Directional Drilling R649-3-11
NBU 1022-06O1BS
T10S R22E
Section 6: SWSE
SWSE 1124' FSL, 1567' FEL (surface)
SWSE 1197' FSL, 1811' FEL (bottom hole)
Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- Kerr-McGee's NBU 1022-06O1BS is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing road and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore

Therefore, based on the above stated information Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

A handwritten signature in blue ink that reads 'Jessy Pink'.

Jessy Pink
Landman

CLASS I REVIEW OF KERR-MCGEE OIL AND GAS
ONSHORE LP'S 73 PROPOSED NBU WELL LOCATIONS
IN TOWNSHIP 10S, RANGE 22E
UINTAH COUNTY, UTAH

By:

Jacki A. Montgomery

Prepared For:

Bureau of Land Management
Vernal Field Office
and
School and Institutional
Trust Lands Administration

Prepared Under Contract With:

Kerr-McGee Oil and Gas Onshore LP
1368 South 1200 East
Vernal, Utah 84078

Prepared By:

Montgomery Archaeological Consultants, Inc.
P.O. Box 219
Moab, Utah 84532

MOAC Report No. 08-268

October 16, 2008

United States Department of Interior (FLPMA)
Permit No. 08-UT-60122

Public Lands Policy Coordination Office
Archaeological Survey Permit No. 117

IPC #08-232

Paleontological Reconnaissance Survey Report

**Survey of Kerr McGee's Proposed Twin Wells and Pipelines for
"NBU #1022-04M1S & K3S, #1022-05H2BS & H2LS, #1022-
05L1S, 05E4S, 05F2S, & 05K1S, #1022-601BS, 06P1CS,
06I3AS, & 06J4CS" (Sec. 4-7, T 10 S, R 22 E)**

Archy Bench
Topographic Quadrangle
Uintah County, Utah

October 8, 2008

Prepared by Stephen D. Sandau
Paleontologist for
Intermountain Paleo-Consulting
P. O. Box 1125
Vernal, Utah 84078

SPECIAL STATUS PLANT AND WILDLIFE SPECIES REPORT

Operator: Anadarko Petroleum Company
Well(s): NBU 1022-06O1BS, -06P1CS, -06I3AS, -06J4CS
Location: Township 10 South, Range 22 East, Section 6
Survey
Date(s): October 15, 2008
Observer(s): SWCA Environmental Consultants, Inc.
Weather: 55-60°F, clear skies, winds at 1 to 5 MPH

PROPOSED PROJECT:

Anadarko proposes to construct well NBU 1022-06O1BS, -06P1CS, -06I3AS, -06J4CS in Township 10 South, Range 22 East, Section 6 in Uintah County, Utah. The proposed well is located west of Bonanza, Utah in the Book Cliffs Management Area of the Bureau of Land Management (BLM) Vernal Field Office. The project area has been historically impacted by mineral extraction activities, transportation corridors, agricultural and ranching activities, livestock grazing, and erosion. There is currently well construction activity occurring within the project area. A map of the proposed well can be found in Appendix D.

PROJECT AREA DESCRIPTION:

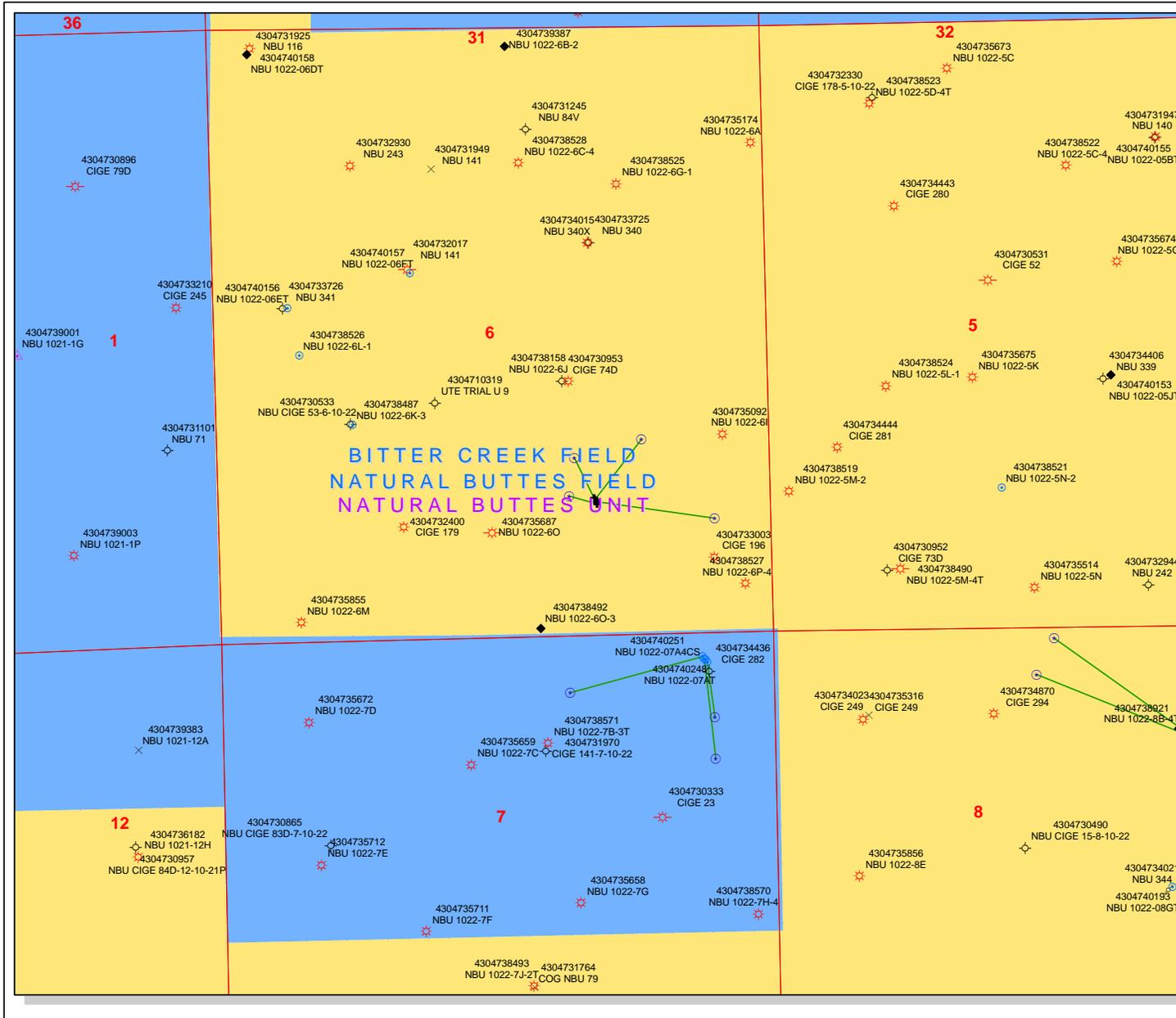
The proposed project area is underlain by sedimentary deposits of the Uinta Formation of Late Middle Eocene age at an elevation of approximately 5,160 feet. Soils in the project area are predominantly sandy clay. Topography within the project area consists of moderately steep rolling hills cut by washes with some rocky outcrops. Slopes within the project area boundary range from 0 to 20 percent.

The vegetation in the project area is a desert shrub community. For a complete list of common plants associated with the desert shrub community in the project area see Appendix A.

SURVEY METHODOLOGY:

In October 2008, the Utah Department of Wildlife Resources website (<http://dwr.cdc.nr.utah.gov/ucdc/>) was reviewed for Uintah County. This site contains the U.S. Fish and Wildlife Service list of threatened, endangered, and candidate species as well as the BLM/Utah state sensitive species list. In addition, past survey reports and environmental documents were reviewed to determine which federally listed threatened, endangered, and candidate species, and which Utah/BLM sensitive species (collectively referred to as special status species) have the potential to occur in the project area. For a complete list of special status plant species within Uintah County see Appendix B. For a complete list of special status wildlife species within Uintah County see Appendix C.

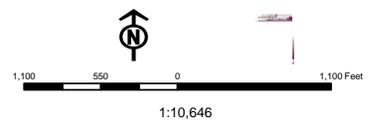
From this pre-project assessment, it was determined that *Sclerocactus sp. (brevispinus and/or wetlandicus)* has potential to occur within the proposed project area. Both *S. brevispinus* and *S. wetlandicus* are protected under the Endangered Species Act as *Sclerocactus glaucus*.



API Number: 4304750686
Well Name: NBU 1022-6O1BS
Township 10.0 S Range 22.0 E Section 6
Meridian: SLBM
 Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
 Map Produced by Diana Mason

Units	Wells Query Events
STATUS	Wells Query Events
ACTIVE	-all other values-
EXPLORATORY	GIS_STAT_TYPE
GAS STORAGE	<Nub>
NF PP OIL	APD
NF SECONDARY	DRL
PI OIL	GI
PP GAS	GS
PP GEOTHERM	LA
PP OIL	NEW
SECONDARY	OPS
TERMINATED	PA
Fields	
ACTIVE	PGW
COMBINED	POW
Sections	RET
	SGW
	SOW
	TA
	TW
	WD
	WT
	WS



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)**

August 28, 2009

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2009 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 2009 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-50640	NBU 1022-8B1DS	Sec 08 T10S R22E 0931 FNL 1709 FEL
	BHL	Sec 08 T10S R22E 0367 FNL 1518 FEL
43-047-50641	NBU 1022-8B4AS	Sec 08 T10S R22E 0919 FNL 1693 FEL
	BHL	Sec 08 T10S R22E 0744 FNL 1518 FEL
43-047-50642	NBU 1022-8C1AS	Sec 08 T10S R22E 0943 FNL 1725 FEL
	BHL	Sec 08 T10S R22E 0102 FNL 2415 FWL
43-047-50643	NBU 1022-8C1CS	Sec 08 T10S R22E 0955 FNL 1742 FEL
	BHL	Sec 08 T10S R22E 0418 FNL 2252 FWL
43-047-50644	NBU 922-30C3S	Sec 30 T09S R22E 1253 FNL 0663 FWL
	BHL	Sec 30 T09S R22E 1238 FNL 1154 FWL
43-047-50645	NBU 922-30D3AS	Sec 30 T09S R22E 1232 FNL 0607 FWL
	BHL	Sec 30 T09S R22E 0680 FNL 0382 FWL
43-047-50646	NBU 921-30C3CS	Sec 30 T09S R21E 0783 FNL 0920 FWL
	BHL	Sec 30 T09S R21E 0993 FNL 1985 FWL
43-047-50647	NBU 921-30D2DS	Sec 30 T09S R21E 0747 FNL 0871 FWL
	BHL	Sec 30 T09S R21E 0460 FNL 0665 FWL

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-50648	NBU 921-30D3DS	Sec 30 T09S R21E 0759 FNL 0887 FWL BHL Sec 30 T09S R21E 1152 FNL 0665 FWL
43-047-50649	NBU 921-30E2AS	Sec 30 T09S R21E 0771 FNL 0903 FWL BHL Sec 30 T09S R21E 1522 FNL 0665 FWL
43-047-50650	NBU 1022-7N1S	Sec 07 T10S R22E 0089 FSL 1920 FEL BHL Sec 07 T10S R22E 0895 FSL 1870 FWL
43-047-50651	NBU 1022-7N4S	Sec 07 T10S R22E 0097 FSL 1938 FEL BHL Sec 07 T10S R22E 0595 FSL 1740 FWL
43-047-50652	NBU 1022-7O4AS	Sec 07 T10S R22E 0081 FSL 1902 FEL BHL Sec 07 T10S R22E 0550 FSL 1560 FEL
43-047-50653	NBU 1022-7O4DS	Sec 07 T10S R22E 0074 FSL 1883 FEL BHL Sec 07 T10S R22E 0230 FSL 1650 FEL
43-047-50655	NBU 922-30D3DS	Sec 30 T09S R22E 1226 FNL 0588 FWL BHL Sec 30 T09S R22E 1314 FNL 0352 FWL
43-047-50656	NBU 922-30E2AS	Sec 30 T09S R22E 1246 FNL 0645 FWL BHL Sec 30 T09S R22E 1636 FNL 0352 FWL
43-047-50678	NBU 922-31G4BS	Sec 31 T09S R22E 2317 FSL 0188 FEL BHL Sec 31 T09S R22E 1994 FNL 1808 FEL
43-047-50679	NBU 922-31G4CS	Sec 31 T09S R22E 2316 FSL 0198 FEL BHL Sec 31 T09S R22E 2353 FNL 1796 FEL
43-047-50680	NBU 922-31I1AS	Sec 31 T09S R22E 2317 FSL 0178 FEL BHL Sec 31 T09S R22E 2483 FSL 0243 FEL
43-047-50681	NBU 922-31I1DS	Sec 31 T09S R22E 2317 FSL 0168 FEL BHL Sec 31 T09S R22E 2137 FSL 0264 FEL
43-047-50682	NBU 921-12J	Sec 12 T09S R21E 1959 FSL 2051 FEL
43-047-50684	NBU 1022-6I3AS	Sec 06 T10S R22E 1160 FSL 1584 FEL BHL Sec 06 T10S R22E 1684 FSL 1167 FEL
43-047-50685	NBU 1022-6J4CS	Sec 06 T10S R22E 1178 FSL 1593 FEL BHL Sec 06 T10S R22E 1535 FSL 1760 FEL
43-047-50686	NBU 1022-6O1BS	Sec 06 T10S R22E 1124 FSL 1567 FEL BHL Sec 06 T10S R22E 1197 FSL 1811 FEL

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-50687	NBU 1022-6P1CS	Sec 06 T10S R22E 1142 FSL 1575 FEL BHL Sec 06 T10S R22E 0989 FSL 0541 FEL
43-047-50691	NBU 921-29A3AS	Sec 29 T09S R21E 0299 FNL 2630 FEL BHL Sec 29 T09S R21E 0700 FNL 0885 FEL
43-047-50692	NBU 921-29A3DS	Sec 29 T09S R21E 0303 FNL 2628 FWL BHL Sec 29 T09S R21E 1193 FNL 0885 FEL
43-047-50694	NBU 921-29A2AS	Sec 29 T09S R21E 0296 FNL 2611 FEL BHL Sec 29 T09S R21E 0209 FNL 0885 FEL
43-047-50693	NBU 921-29B2CS	Sec 29 T09S R21E 0307 FNL 2608 FWL BHL Sec 29 T09S R21E 0443 FNL 2635 FEL
43-047-50695	NBU 921-12N	Sec 12 T09S R21E 0441 FSL 2236 FWL
43-047-50698	NBU 921-19F	Sec 19 T09S R21E 2236 FNL 2285 FWL
43-047-50699	NBU 921-17C	Sec 17 T09S R21E 0656 FNL 2004 FWL
43-047-50700	NBU 921-17D	Sec 17 T09S R21E 0985 FNL 0418 FWL
43-047-50701	NBU 921-17G	Sec 17 T09S R21E 1500 FNL 2262 FEL
43-047-50702	NBU 921-17H	Sec 17 T09S R21E 2100 FNL 0553 FEL
43-047-50703	NBU 921-18P	Sec 18 T09S R21E 1080 FSL 0197 FEL
43-047-50704	NBU 921-19E	Sec 19 T09S R21E 2061 FNL 0842 FWL

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

/s/ Michael L. Coulthard

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

Fluid Chron

MCoulthard:mc:8-28-09

**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 8/24/2009

API NO. ASSIGNED: 43047506860000

WELL NAME: NBU 1022-601BS

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

PHONE NUMBER: 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: SWSE 6 100S 220E

Permit Tech Review:

SURFACE: 1124 FSL 1567 FEL

Engineering Review:

BOTTOM: 1197 FSL 1811 FEL

Geology Review:

COUNTY: UINTAH

LATITUDE: 39.97383

LONGITUDE: -109.47799

UTM SURF EASTINGS: 629974.00

NORTHINGS: 4425752.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU 01195

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: Permit #43-8496
- RDCC Review:
- Fee Surface Agreement
- Intent to Commingle

Commingle Approved

LOCATION AND SITING:

- R649-2-3.
Unit: NATURAL BUTTES
 - R649-3-2. General
 - R649-3-3. Exception
 - Drilling Unit
Board Cause No: Cause 173-14
Effective Date: 12/2/1999
Siting: 460' fr u bdry & uncomm. tract
 - R649-3-11. Directional Drill
-

Comments: Presite Completed

Stipulations:
1 - Exception Location - dmason
3 - Commingle - ddoucet
4 - Federal Approval - dmason
15 - Directional - dmason
17 - Oil Shale 190-5(b) - dmason



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
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 1022-601BS
API Well Number: 43047506860000
Lease Number: UTU 01195
Surface Owner: FEDERAL
Approval Date: 9/1/2009

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

Exception Location:

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

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:

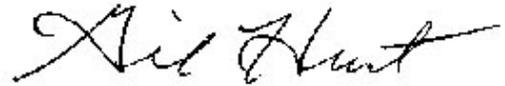
- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)
OR
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <https://oilgas.ogm.utah.gov>

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:



Gil Hunt
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 01195
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 1022-601BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047506860000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1124 FSL 1567 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 06 Township: 10.0S Range: 22.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 8/31/2010 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

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

Kerr-McGee Oil & Gas Onshore, 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: August 31, 2010
 By: 

NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 8/31/2010



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 43047506860000

API: 43047506860000

Well Name: NBU 1022-601BS

Location: 1124 FSL 1567 FEL QTR SWSE SEC 06 TWP 100S RNG 220E MER S

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

Date Original Permit Issued: 9/1/2009

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

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

Signature: Danielle Piernot

Date: 8/31/2010

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

Date: August 31, 2010

By: 

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 01195	
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 1022-601BS		
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047506860000		
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6515 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1124 FSL 1567 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 06 Township: 10.0S Range: 22.0E Meridian: S	COUNTY: UINTAH		
		STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 8/19/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: <input style="width: 50px;" type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
<p>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.</p>			
			<p>Approved by the Utah Division of Oil, Gas and Mining</p> <p>Date: <u>08/22/2011</u></p> <p>By: <u></u></p>
NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II	
SIGNATURE N/A		DATE 8/19/2011	



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 43047506860000

API: 43047506860000

Well Name: NBU 1022-601BS

Location: 1124 FSL 1567 FEL QTR SWSE SEC 06 TWP 100S RNG 220E MER S

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

Date Original Permit Issued: 9/1/2009

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.

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

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

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

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

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

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

Signature: Gina Becker

Date: 8/19/2011

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 01195	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Gas Well	7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	8. WELL NAME and NUMBER: NBU 1022-6O1BS
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	9. API NUMBER: 43047506860000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1124 FSL 1567 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 06 Township: 10.0S Range: 22.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
	COUNTY: UINTAH
	STATE: UTAH

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

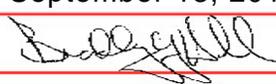
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 8/30/2012	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

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

Approved by the Utah Division of Oil, Gas and Mining

Date: September 13, 2012

By: 

NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 8/30/2012	



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 43047506860000

API: 43047506860000

Well Name: NBU 1022-601BS

Location: 1124 FSL 1567 FEL QTR SWSE SEC 06 TWNP 100S RNG 220E MER S

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

Date Original Permit Issued: 9/1/2009

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- 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: Danielle Piernot

Date: 8/30/2012

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 01195
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 1022-601BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047506860000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6514 9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2186 FSL 1718 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 06 Township: 10.0S Range: 22.0E Meridian: S	COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 6/15/2013 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

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

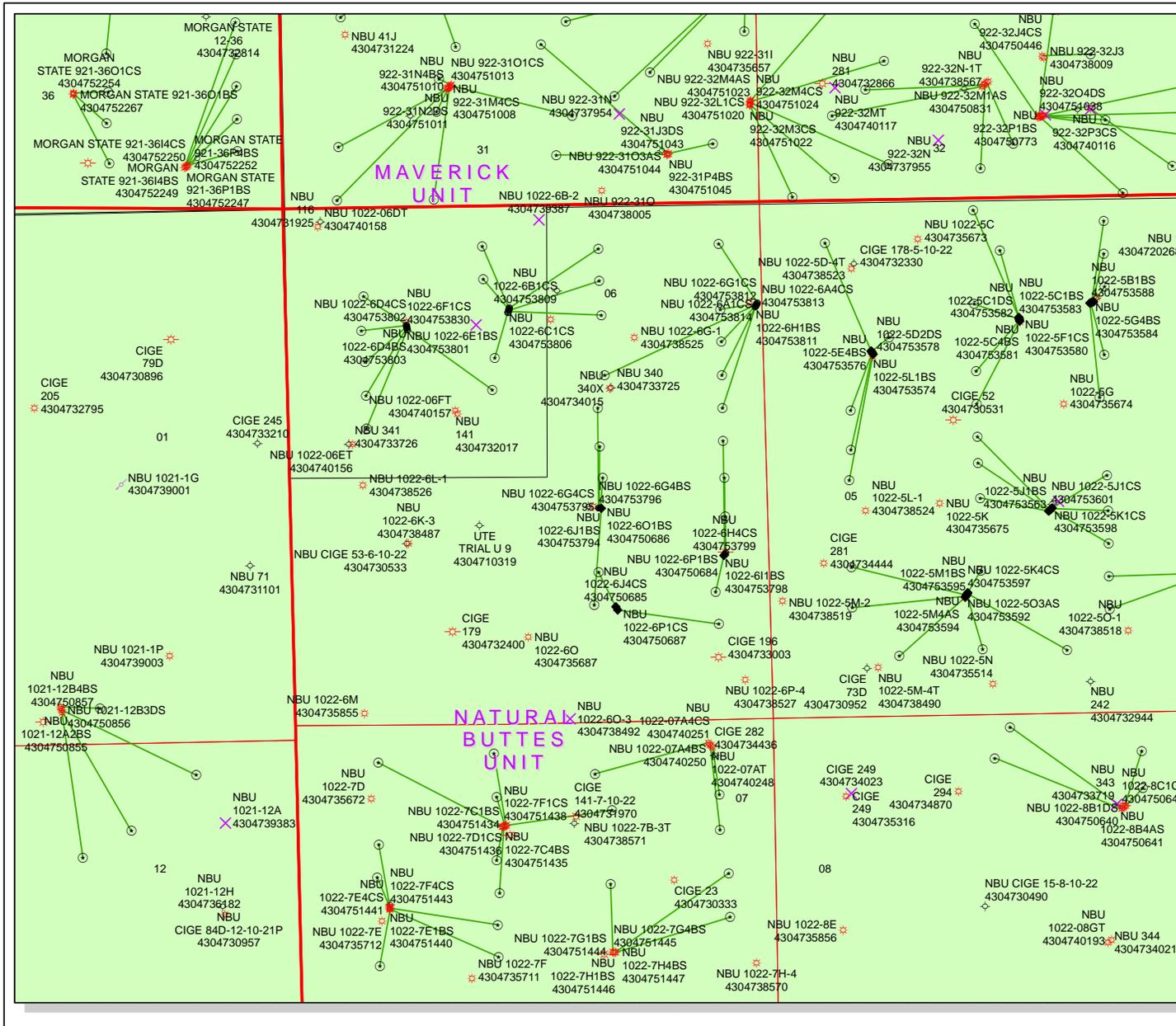
The operator is requesting the approval of the following changes to the originally approved APD 1. Surface & Bottom Hole Location Changes (New Plat Package is Attached) \ a. SHL - From = 1124 FSL/1567 FEL : To = 2186 FSL/1718 FEL \ b. BHL - No Change 2. Proposed Total Depth (New Drilling Program Attached) \ 3. Surface Hole Size & Casing Grade (New Wellbore Diagram Attached) \ 4. Change to Directional Survey Plans (Directional Drilling Survey Attached) \ 5. Surface Use Plan of Operation (Updated Plan Attached) \ 8. Updated Topos & Directions (Attached)

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

Date: June 05, 2013

By:

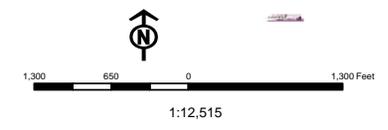
NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A		DATE 5/29/2013



API Number: 4304750686
Well Name: NBU 1022-601BS
Township T10.0S Range R22.0E Section 06
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 GEOTHERMAL
 - PP OIL
 - SECONDARY
 - TERMINATED



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

NBU 1022-6O1BS
 Surface: 2186 FSL / 1718 FEL NWSE
 BHL: 1197 FSL / 1811 FEL SWSE

Section 6 T10S R22E

Unitah County, Utah
 Mineral Lease: UTU-01195

ONSHORE ORDER NO. 1

DRILLING PROGRAM

**1. & 2.a Estimated Tops of Important Geologic Markers:
 Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1,213'	
Birds Nest	1,538'	Water
Mahogany	2,029'	Water
Wasatch	4,450'	Gas
Mesaverde	7,033'	Gas
Sego	9,201'	Gas
Castlegate	9,255'	Gas
Blackhawk	9,690'	Gas
TVD =	10,290'	
TD =	10,445'	

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

If Kerr-McGee drills to a shallower depth in the Mesaverde Group or to the Wasatch Formation, please refer to the attached Wasatch/Mesaverde Drilling Program which includes Total Vertical Depth, Total Depth, and appropriate casing and cement programs for the shallower formations.

3. Pressure Control Equipment (Schematic Attached)

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

4. Proposed Casing & Cementing Program:

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

5. Drilling Fluids Program:

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

6. Evaluation Program:

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

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

Maximum anticipated bottom hole pressure calculated at 10290' TVD, approximately equals
6,586 psi (0.64 psi/ft = actual bottomhole gradient)

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

Maximum anticipated surface pressure equals approximately 4,307 psi (bottom hole pressure
minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

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

7.b Wasach Formation/Mesaverde Group

Maximum anticipated bottom hole pressure calculated at 9201' TVD, approximately equals
5,613 psi (0.61 psi/ft = actual bottomhole gradient)

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

Maximum anticipated surface pressure equals approximately 3,613 psi (bottom hole pressure
minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

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

8. Anticipated Starting Dates:

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

9. Variations:

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

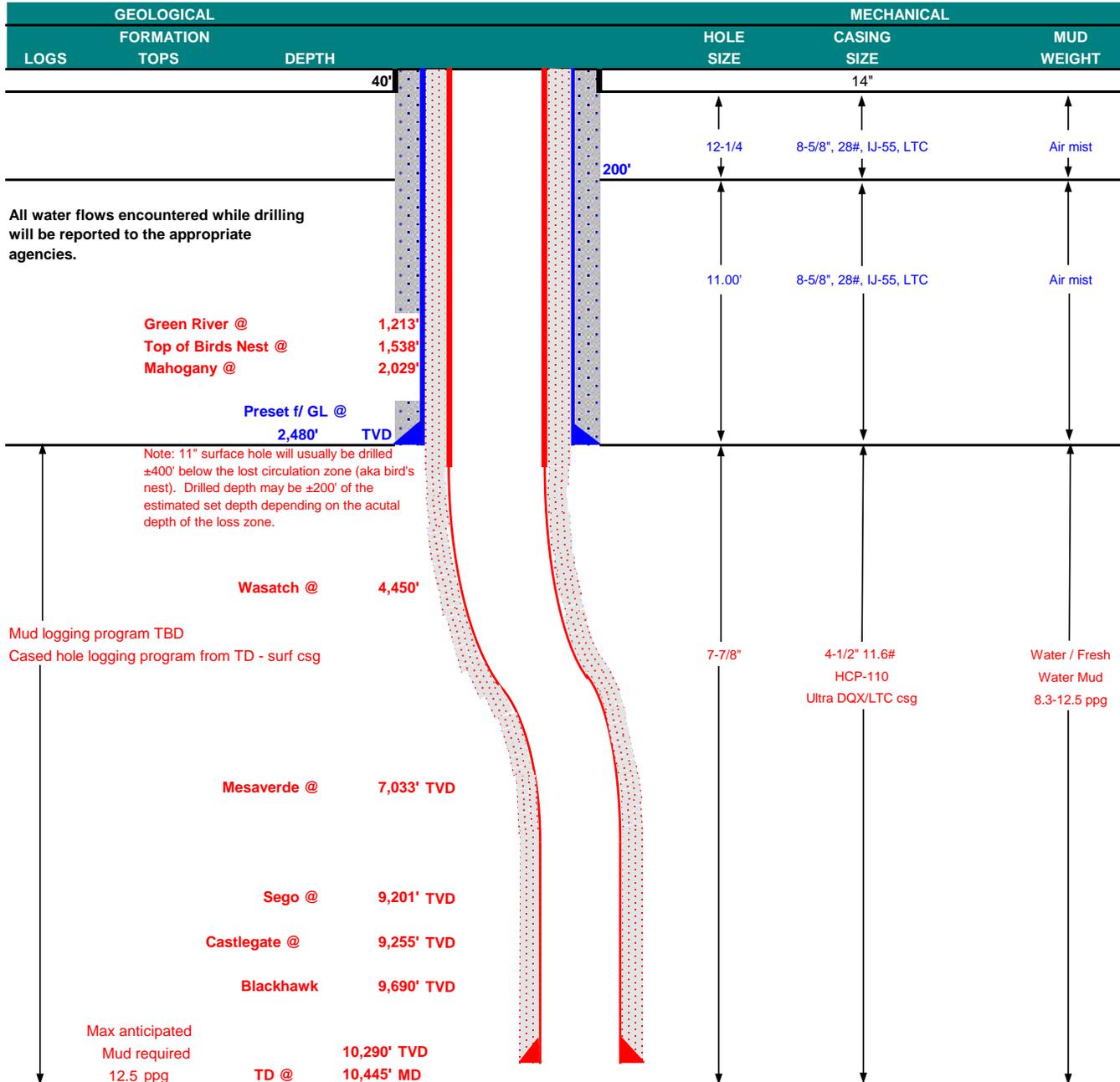
10. Other Information:

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



KERR-McGEE OIL & GAS ONSHORE LP
Blackhawk Drilling Program

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	January 24, 2013	
WELL NAME	NBU 1022-6O1BS		TD	10,290'	10,445' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah
SURFACE LOCATION	NWSE	2186 FSL	1718 FEL	Sec 6 T 10S R 22E	FINISHED ELEVATION 5,108'
	Latitude:	39.976704	Longitude:	-109.479294	NAD 83
BTM HOLE LOCATION	SWSE	1197 FSL	1811 FEL	Sec 6 T 10S R 22E	
	Latitude:	39.973988	Longitude:	-109.479591	NAD 83
OBJECTIVE ZONE(S)	BLACKHAWK (Part of the Mesaverde Group)				
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.				





KERR-McGEE OIL & GAS ONSHORE LP
Blackhawk Drilling Program

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS			
						BURST	COLLAPSE	LTC	DQX
								TENSION	
CONDUCTOR	14"	0-40'							
SURFACE	8-5/8"	0 to 2,480	28.00	IJ-55	LTC	3,390	1,880	348,000	N/A
						2.17	1.62	5.72	N/A
PRODUCTION	4-1/2"	0 to 5,000	11.60	HCP-110	DQX	10,690	8,650	279,000	367,174
						1.19	1.29		3.75
	4-1/2"	5,000 to 10,445'	11.60	HCP-110	LTC	1.19	1.29	5.46	

Surface Casing:

(Burst Assumptions: TD = 12.5 ppg) 0.73 psi/ft = frac gradient @ surface shoe
Fracture at surface shoe with 0.1 psi/ft gas gradient above

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

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 9000 psi) 0.64 psi/ft = bottomhole gradient

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

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80	1.15
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80	1.15
NOTE: If well will circulate water to surface, option 2 will be utilized							
SURFACE Option 2	LEAD	1,980'	Premium cmt + 16% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOC + GR 3 pps	240	35%	12.00	2.86
	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.80	1.15
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	3,945'	Premium Lite II + 0.25 pps celloflake + .4% FL-52 + .3% R-3 + .5 lbs/sk Kol-Seal + 6%Bentonite II + 1.2% Sodium Metasilicate + .05 lbs/sk Static Free	310	35%	12.00	3.38
	TAIL	6,500'	50/50 Poz/G + 10% salt + .05 lbs/sk Static Free + 1.2% Sodium Metasilicate + .5 % EC-1 +.002 gps FP-6L + 2% Bentonite II	1,530	35%	14.30	1.31

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

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

FLOAT EQUIPMENT & CENTRALIZERS

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

ADDITIONAL INFORMATION

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

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

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

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

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

DRILLING ENGINEER:

Nick Spence / John Tuckwiller / Brian Cocchiere / Tyler Elliott

DATE:

DRILLING SUPERINTENDENT:

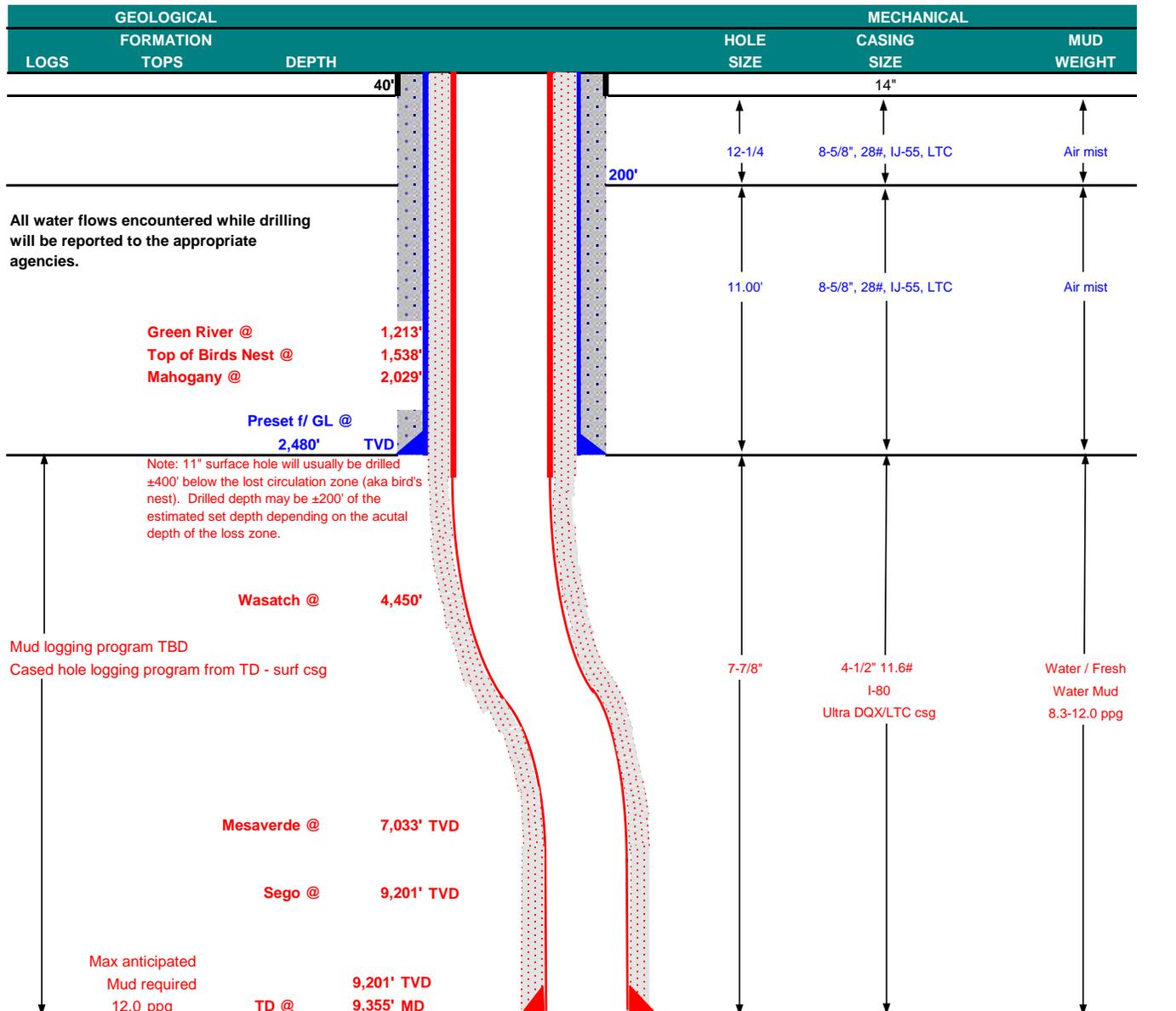
Kenny Gathings / Lovel Young

DATE:



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

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	January 24, 2013	
WELL NAME	NBU 1022-601BS		TD	9,201'	9,355' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah
SURFACE LOCATION	NWSE	2186 FSL	1718 FEL	Sec 6 T 10S	R 22E
	Latitude:	39.976704	Longitude:	-109.479294	NAD 83
BTM HOLE LOCATION	SWSE	1197 FSL	1811 FEL	Sec 6 T 10S	R 22E
	Latitude:	39.973988	Longitude:	-109.479591	NAD 83
OBJECTIVE ZONE(S)	Wasatch Formation/Mesaverde Group				
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.				





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

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS			
						BURST	COLLAPSE	LTC	DQX
								TENSION	
CONDUCTOR	14"	0-40'							
SURFACE	8-5/8"	0 to 2,480	28.00	IJ-55	LTC	3.390	1,880	348,000	N/A
						7,780	6,350		267,035
PRODUCTION	4-1/2"	0 to 5,000	11.60	I-80	DQX	1.11	1.11		3.01
						7,780	6,350	223,000	
	4-1/2"	5,000 to 9,355'	11.60	I-80	LTC	1.11	1.11	5.41	

Surface Casing:

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

Production casing:

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

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80	1.15
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80	1.15
NOTE: If well will circulate water to surface, option 2 will be utilized							
SURFACE Option 2	LEAD	1,980'	Premium cmt + 16% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOC + GR 3 pps	240	35%	12.00	2.86
	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps Flocele + 3% salt BWOC + GR 3 pps	150	35%	15.80	1.15
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	3,945'	Premium Lite II +0.25 pps celloflake + .4% FL-52 + .3% R-3 + .5 lbs/sk Kol-Seal + 6%Bentonite II + 1.2% Sodium Metasilicate + .05 lbs/sk Static Free	310	35%	12.00	3.38
	TAIL	5,410'	50/50 Poz/G + 10% salt + .05 lbs/sk Static Free + 1.2% Sodium Metasilicate + .5 % EC-1 +.002 gps FP-6L + 2% Bentonite II	1,280	35%	14.30	1.31

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

FLOAT EQUIPMENT & CENTRALIZERS

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

ADDITIONAL INFORMATION

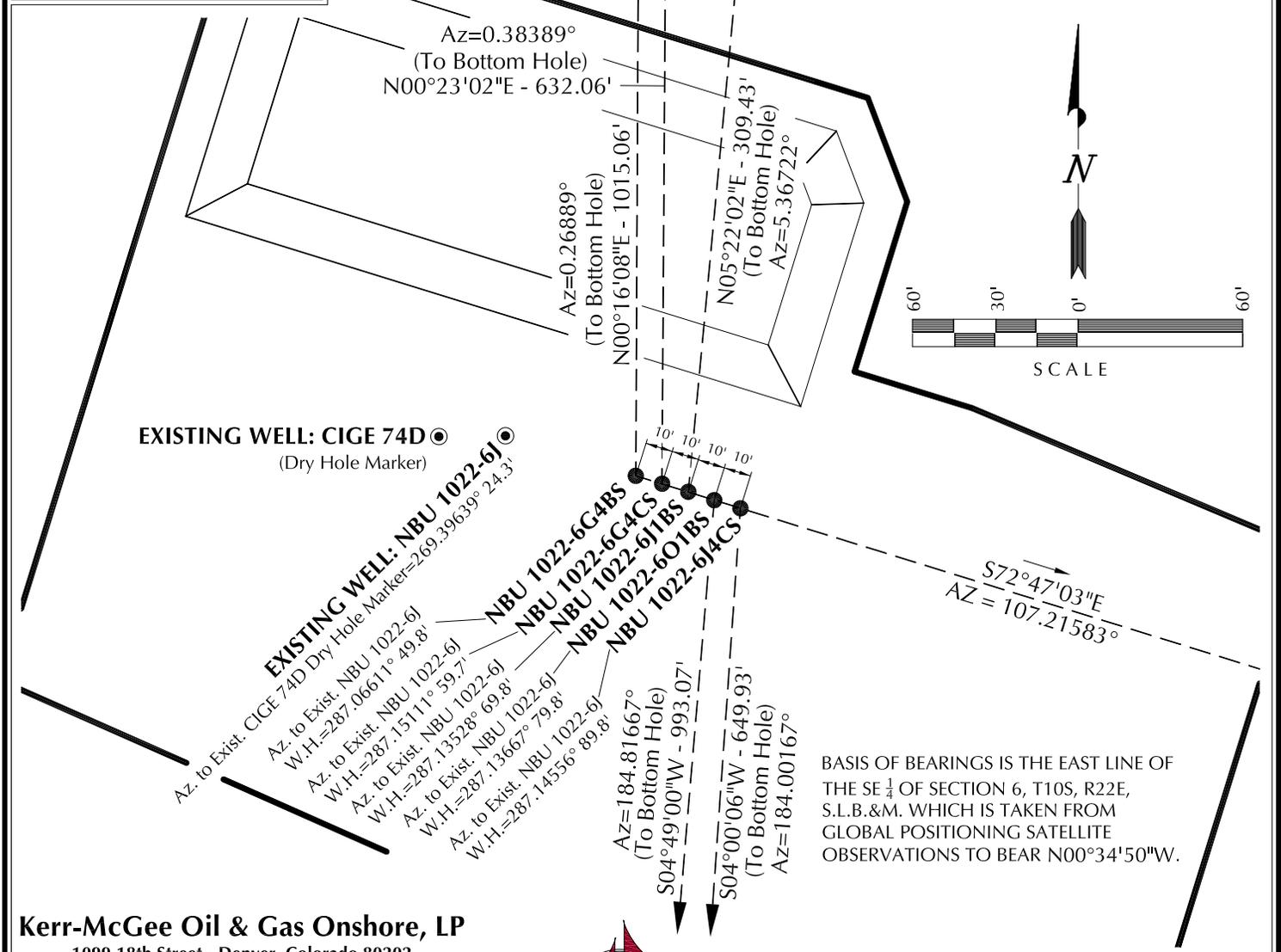
Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.
 BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.
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DRILLING ENGINEER: _____ **DATE:** _____
 Nick Spence / John Tuckwiller / Brian Cocchiere / Tyler Elliott
DRILLING SUPERINTENDENT: _____ **DATE:** _____
 Kenny Gathings / Lovel Young

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
NBU 1022-6G4BS	39°58'36.221"	109°28'45.826"	39°58'36.346"	109°28'43.360"	2195' FSL 1746' FEL	39°58'46.250"	109°28'45.767"	39°58'46.375"	109°28'43.301"	2094' FNL 1731' FEL
NBU 1022-6G4CS	39°58'36.191"	109°28'45.704"	39°58'36.316"	109°28'43.238"	2192' FSL 1737' FEL	39°58'42.436"	109°28'45.651"	39°58'42.561"	109°28'43.185"	2480' FNL 1726' FEL
NBU 1022-6J1BS	39°58'36.162"	109°28'45.580"	39°58'36.287"	109°28'43.114"	2189' FSL 1727' FEL	39°58'39.206"	109°28'45.209"	39°58'39.331"	109°28'42.743"	2497' FSL 1695' FEL
NBU 1022-6O1BS	39°58'36.133"	109°28'45.458"	39°58'36.258"	109°28'42.992"	2186' FSL 1718' FEL	39°58'26.356"	109°28'46.527"	39°58'26.481"	109°28'44.061"	1197' FSL 1811' FEL
NBU 1022-6J4CS	39°58'36.104"	109°28'45.336"	39°58'36.229"	109°28'42.870"	2183' FSL 1708' FEL	39°58'29.698"	109°28'45.917"	39°58'29.823"	109°28'43.451"	1535' FSL 1760' FEL
NBU 1022-6J	39°58'36.367"	109°28'46.440"	39°58'36.492"	109°28'43.973"	2210' FSL 1794' FEL	39°58'36.367"	109°28'46.440"	39°58'36.492"	109°28'43.973"	
CIGE 74D	39°58'36.363"	109°28'46.749"	39°58'36.488"	109°28'44.283"	2210' FSL 1818' FEL	39°58'36.363"	109°28'46.749"	39°58'36.488"	109°28'44.283"	

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 1022-6G4BS	1015.0'	4.8'	NBU 1022-6G4CS	632.0'	4.2'	NBU 1022-6J1BS	308.1'	28.9'	NBU 1022-6O1BS	-989.6'	-83.4'
NBU 1022-6J4CS	-648.3'	-45.4'									



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

WELL PAD - NBU 1022-6J

WELL PAD INTERFERENCE PLAT
WELLS - NBU 1022-6G4BS,
NBU 1022-6G4CS, NBU 1022-6J1BS,
NBU 1022-6O1BS & NBU 1022-6J4CS
LOCATED IN SECTION 6, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH.

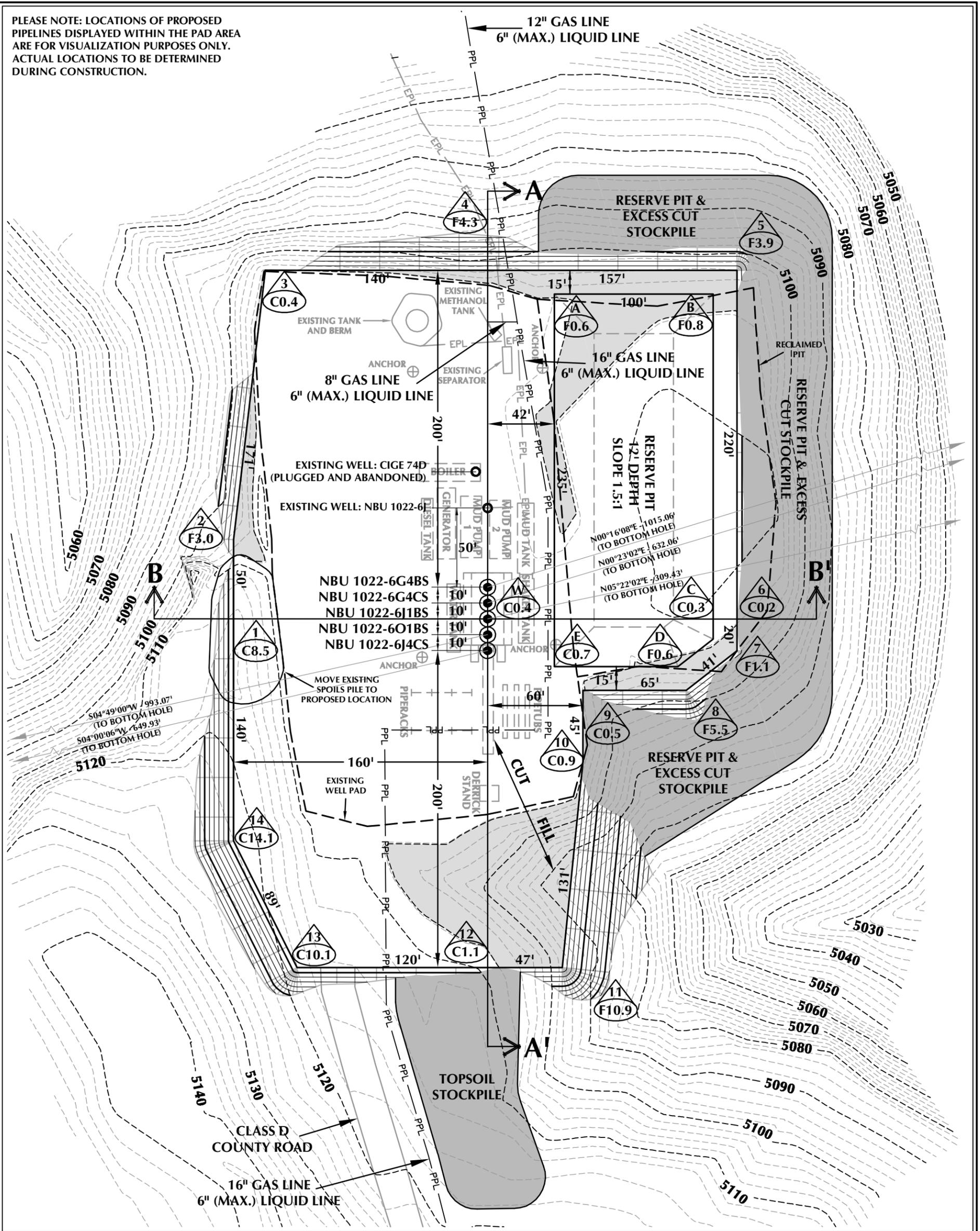
609

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: 8-9-12	SURVEYED BY: W.W.	SHEET NO: 6
DATE DRAWN: 8-22-12	DRAWN BY: T.J.R.	
SCALE: 1" = 60'		6 OF 17

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



WELL PAD - NBU 1022-6J DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5108.3'
 FINISHED GRADE ELEVATION = 5107.9'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1
 TOTAL WELL PAD AREA = 3.13 ACRES
 TOTAL DISTURBANCE AREA = 4.15 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00

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

WELL PAD - NBU 1022-6J

WELL PAD - LOCATION LAYOUT
 NBU 1022-6G4BS,
 NBU 1022-6G4CS, NBU 1022-6J1BS,
 NBU 1022-6O1BS & NBU 1022-6J4CS
 LOCATED IN SECTION 6, T10S, R22E,
 S.L.B.&M., UINTAH COUNTY, UTAH



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

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 6,171 C.Y.
 TOTAL FILL FOR WELL PAD = 4,926 C.Y.
 TOPSOIL @ 6" DEPTH = 1,382 C.Y.
 EXCESS MATERIAL = 1,245 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT
 +/- 7,910 C.Y.
 RESERVE PIT CAPACITY (2' OF FREEBOARD)
 +/- 30,090 BARRELS

WELL PAD LEGEND

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

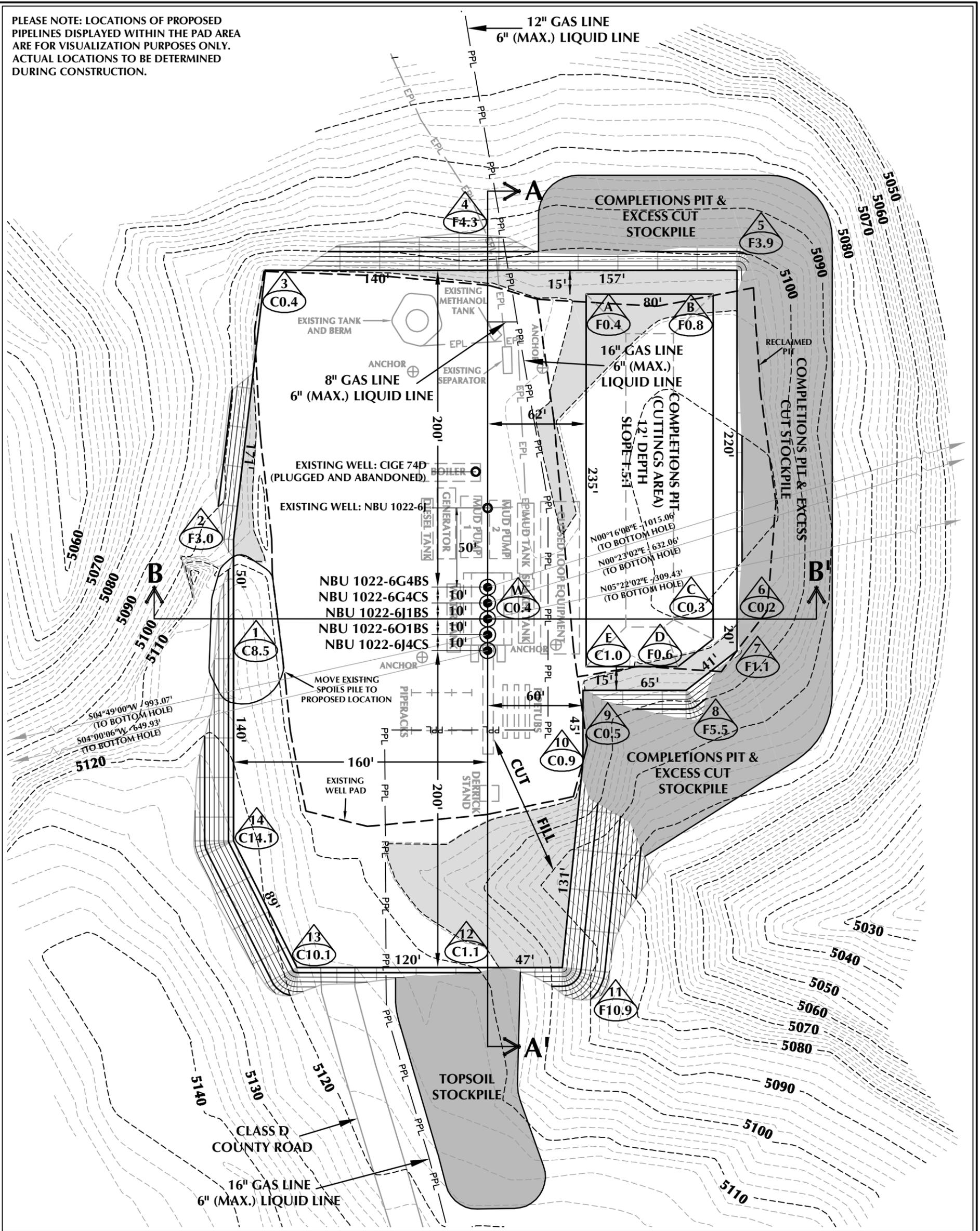


HORIZONTAL 0 30' 60' 1" = 60'
 2' CONTOURS

SCALE: 1"=60' DATE: 9/4/12 SHEET NO:
 REVISED: ANK 11/30/12 7 7 OF 17

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 209 NORTH 300 WEST - VERNAL, UTAH 84078

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



WELL PAD - NBU 1022-6J (CLOSED LOOP) DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5108.3'
 FINISHED GRADE ELEVATION = 5107.9'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1
 TOTAL WELL PAD AREA = 3.13 ACRES
 TOTAL DISTURBANCE AREA = 4.15 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00

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

WELL PAD - NBU 1022-6J

WELL PAD - LOCATION LAYOUT
 NBU 1022-6G4BS,
 NBU 1022-6G4CS, NBU 1022-6J1BS,
 NBU 1022-6O1BS & NBU 1022-6J4CS
 LOCATED IN SECTION 6, T10S, R22E,
 S.L.B.&M., UINTAH COUNTY, UTAH



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 Sheridan, WY 82801
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WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 6,171 C.Y.
 TOTAL FILL FOR WELL PAD = 4,926 C.Y.
 TOPSOIL @ 6" DEPTH = 1,382 C.Y.
 EXCESS MATERIAL = 1,245 C.Y.

COMPLETIONS PIT QUANTITIES

TOTAL CUT FOR COMPLETIONS PIT
 +/- 6,120 C.Y.
 COMPLETIONS PIT CAPACITY
 (2' OF FREEBOARD)
 +/- 22,790 BARRELS

WELL PAD LEGEND

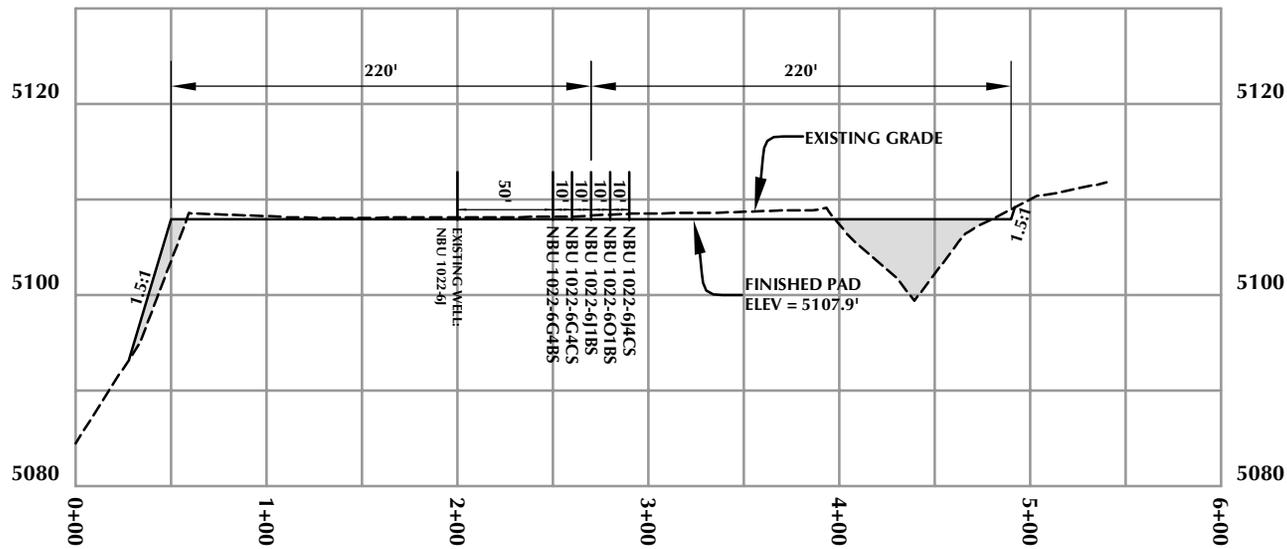
- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PROPOSED PIPELINE
- EXISTING PIPELINE



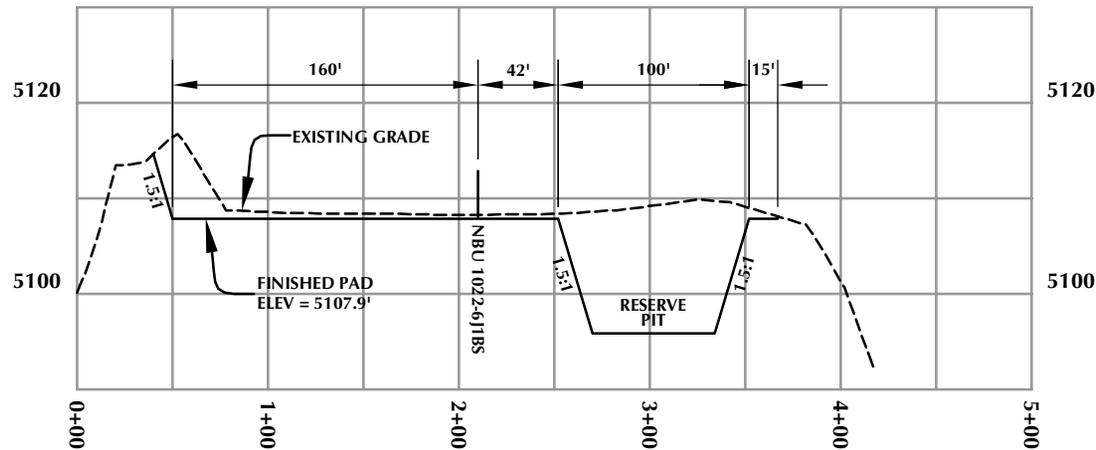
HORIZONTAL 0 30' 60' 1" = 60'
 2' CONTOURS

SCALE: 1"=60' DATE: 11/30/12 SHEET NO:
 REVISED: **7B** 7B OF 17

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 209 NORTH 300 WEST - VERNAL, UTAH 84078



CROSS SECTION A-A'



CROSS SECTION B-B'

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

WELL PAD - NBU 1022-6J

WELL PAD - CROSS SECTIONS

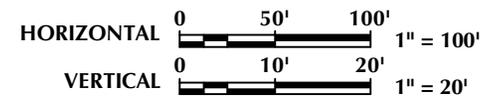
NBU 1022-6G4BS,
NBU 1022-6G4CS, NBU 1022-6J1BS,
NBU 1022-6O1BS & NBU 1022-6J4CS
LOCATED IN SECTION 6, T10S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH



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

(435) 789-1365



Scale: 1"=100'

Date: 9/4/12

SHEET NO:

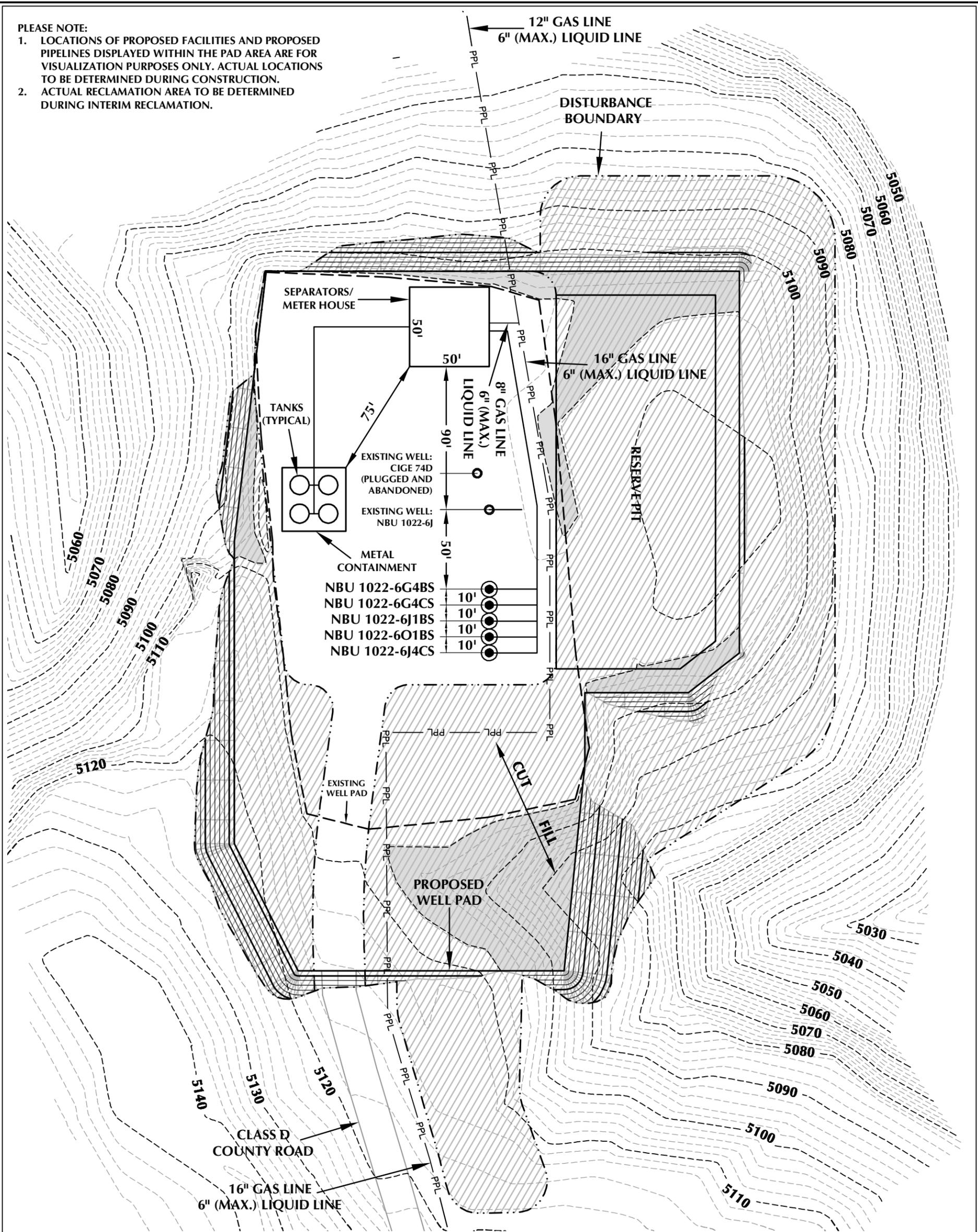
REVISED:

8

8 OF 17

PLEASE NOTE:

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



WELL PAD - NBU 1022-6J RECLAMATION DESIGN SUMMARY

TOTAL DISTURBANCE AREA = 4.15 ACRES (INCLUDING EXISTING)
 RECLAMATION AREA = 2.93 ACRES
 TOTAL WELL PAD AREA AFTER RECLAMATION = 1.22 ACRES

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

WELL PAD - NBU 1022-6J

WELL PAD - RECLAMATION LAYOUT
 NBU 1022-6G4BS,
 NBU 1022-6G4CS, NBU 1022-6J1BS,
 NBU 1022-6O1BS & NBU 1022-6J4CS
 LOCATED IN SECTION 6, T10S, R22E,
 S.L.B.&M., UINTAH COUNTY, UTAH



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 209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

WELL PAD LEGEND

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

0 30' 60' 1" = 60'

HORIZONTAL

2' CONTOURS

SCALE: 1"=60'	DATE: 9/4/12	SHEET NO:
REVISED:	ANK 11/30/12	9 9 OF 17

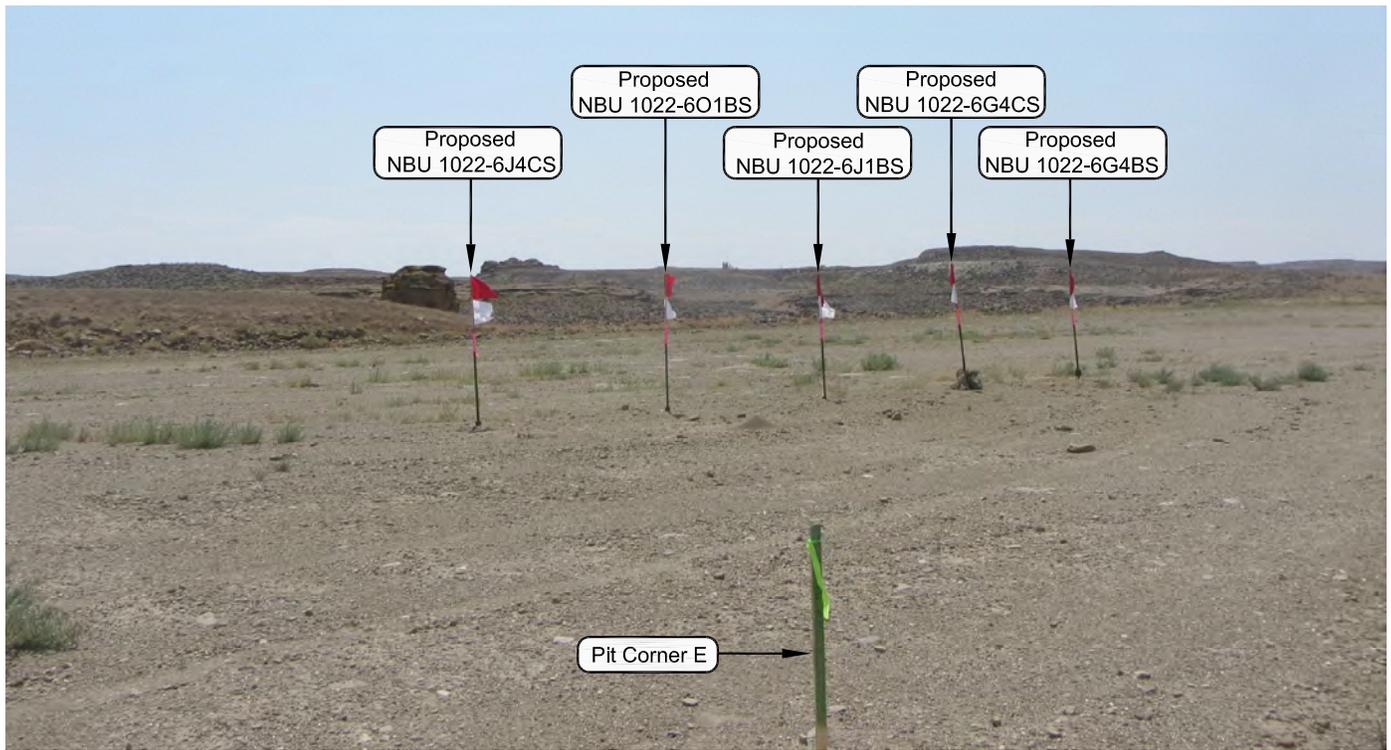


PHOTO VIEW: FROM PIT CORNER E TO LOCATION STAKE

CAMERA ANGLE: SOUTHWESTERLY



PHOTO VIEW: FROM EXISTING ACCESS ROAD

CAMERA ANGLE: WESTERLY

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

WELL PAD - NBU 1022-6J

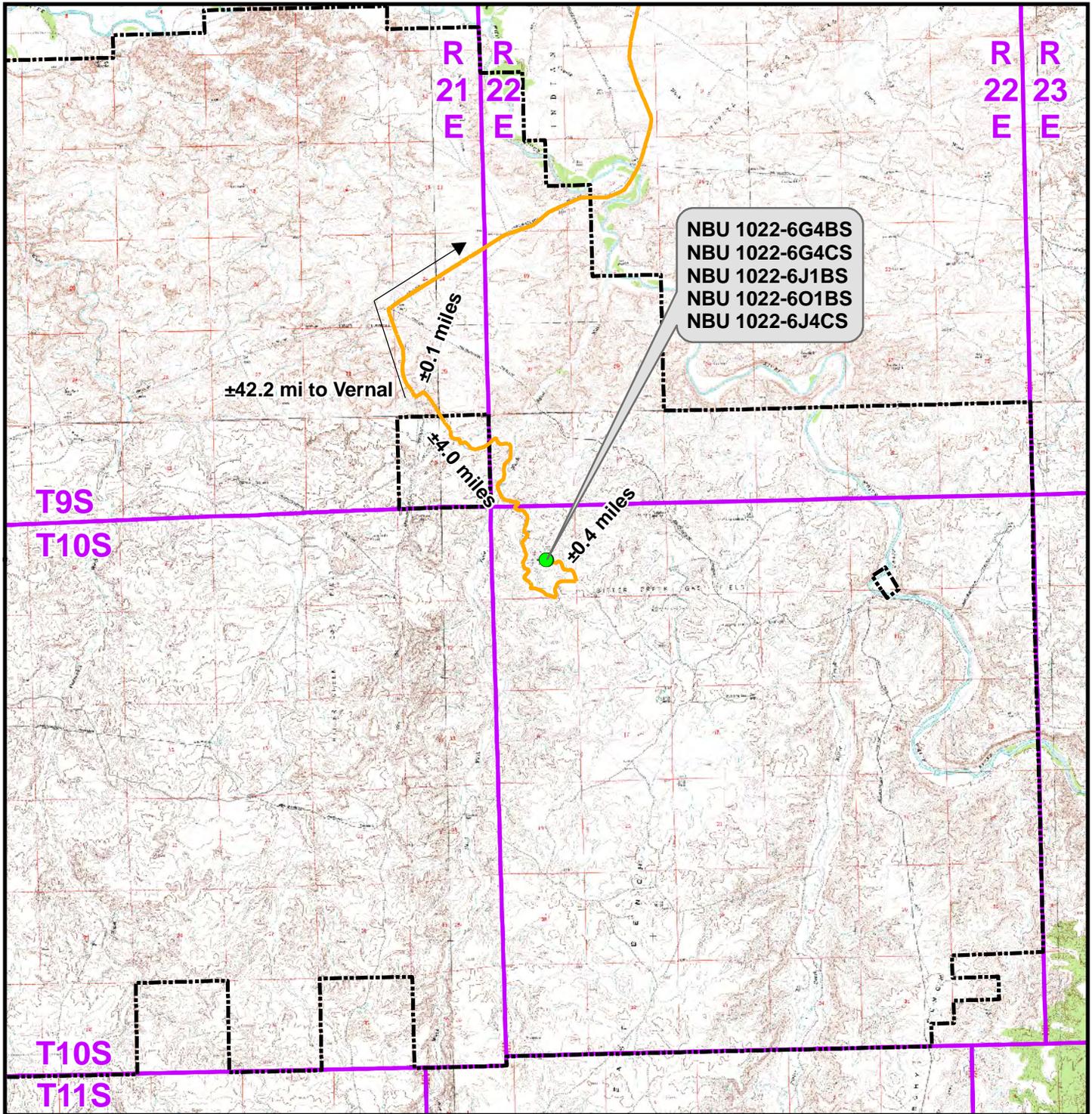
LOCATION PHOTOS
 NBU 1022-6G4BS,
 NBU 1022-6G4CS, NBU 1022-6J1BS,
 NBU 1022-6O1BS & NBU 1022-6J4CS
 LOCATED IN SECTION 6, T10S, R22E,
 S.L.B.&M., UINTAH COUNTY, UTAH.



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

DATE PHOTOS TAKEN: 8-9-12	PHOTOS TAKEN BY: W.W.	SHEET NO: 10
DATE DRAWN: 8-22-12	DRAWN BY: T.J.R.	
Date Last Revised:		10 OF 17



File: K:\ANADARKO\2012\2012_54_NBU_1022-6_FOCUS\GIS\Maps_ABCDENBU_1022-6\NBU_1022-6J_A.mxd, 9/24/2012 11:10:40 AM

Legend

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

Distance From Well Pad - NBU 1022-6J To Unit Boundary: ±4,436ft

WELL PAD - NBU 1022-6J

TOPO A
NBU 1022-6G4BS,
NBU 1022-6G4CS, NBU 1022-6J1BS,
NBU 1022-6O1BS & NBU 1022-6J4CS
LOCATED IN SECTION 6, T10S, R22E
S.L.B.&M., UINTAH COUNTY, UTAH

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

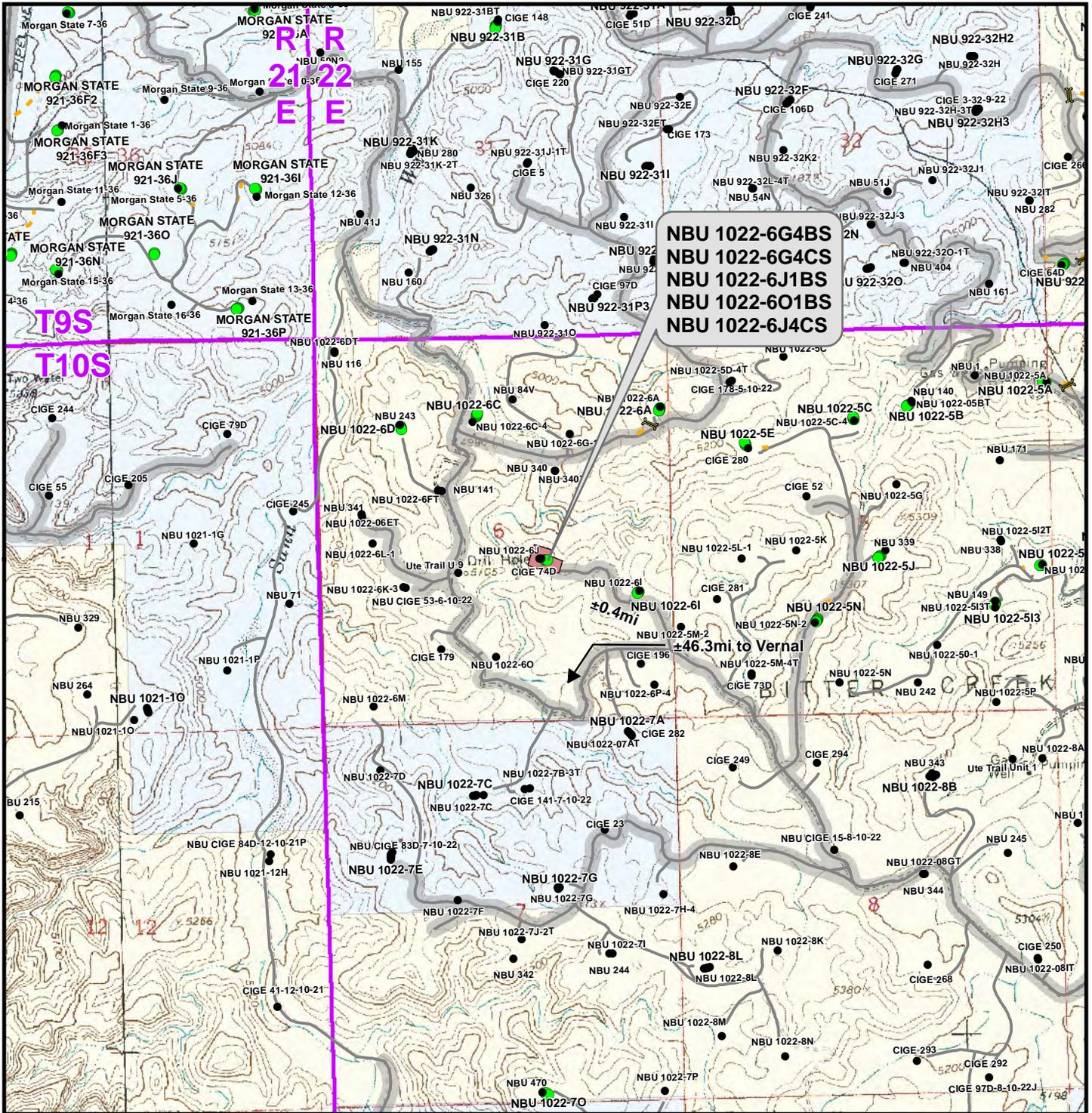
**1099 18th Street
 Denver, Colorado 80202**



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



SCALE: 1:100,000	NAD83 USP Central	SHEET NO:
DRAWN: TL	DATE: 20 Sept 2012	11
REVISED:	DATE:	11 OF 17



File: K:\ANADARKO\2012\2012_54_NBU_1022-6_FOCUS\GIS\Maps_ABCDENBU_1022-6J_B.mxd, 12/12/2012 4:06:59 PM

Legend

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

Total Proposed Road Length: ±0ft

WELL PAD - NBU 1022-6J

TOPO B
NBU 1022-6G4BS,
NBU 1022-6G4CS, NBU 1022-6J1BS,
NBU 1022-6O1BS & NBU 1022-6J4CS
 LOCATED IN SECTION 6, T10S, R22E
 S.L.B.&M., UINTAH COUNTY, UTAH

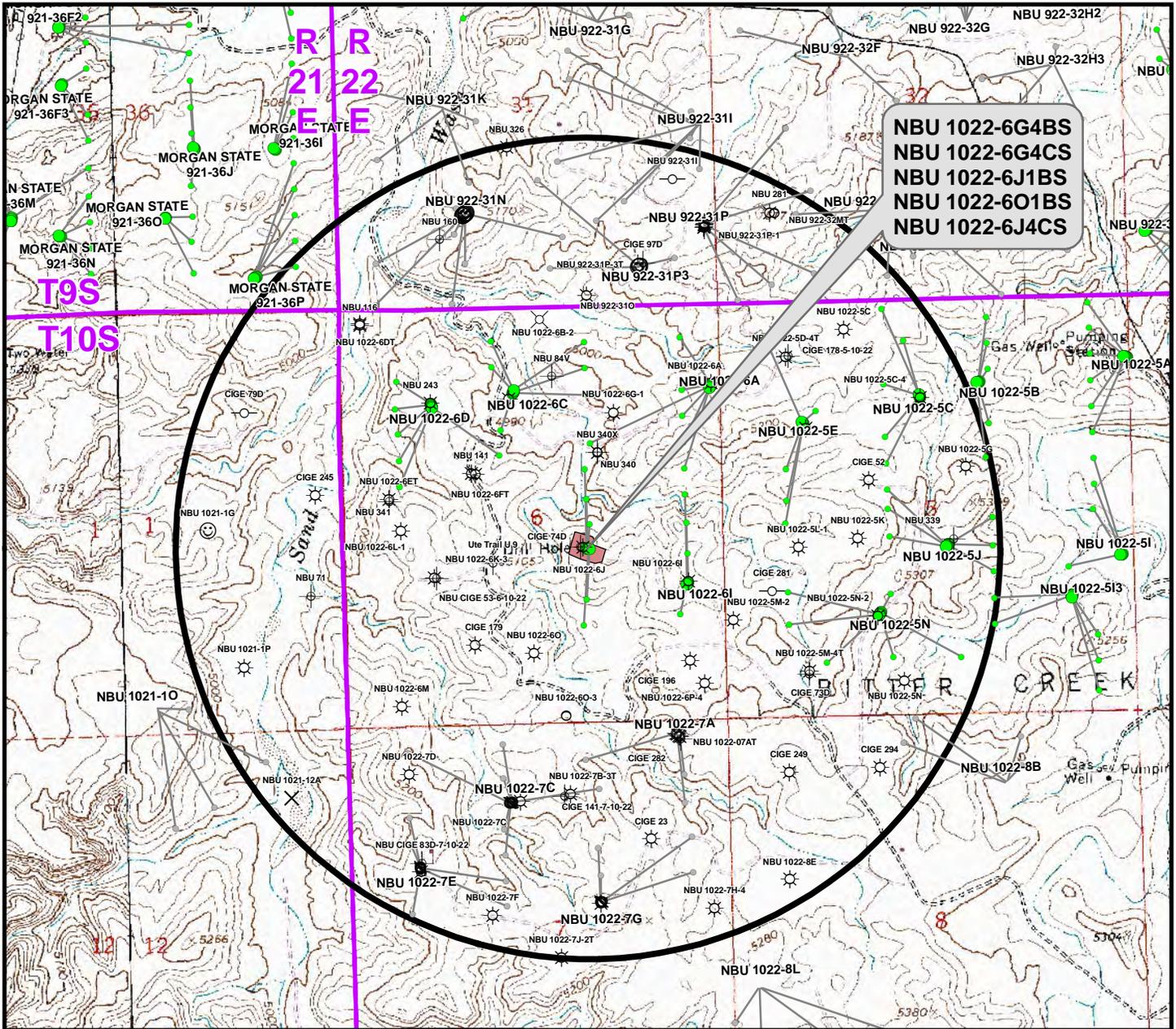
**Kerr-McGee Oil &
 Gas Onshore L.P.**
 1099 18th Street
 Denver, Colorado 80202



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



SCALE: 1" = 2,000ft	NAD83 USP Central	SHEET NO:	12
DRAWN: TL	DATE: 20 Sept 2012	12 OF 17	
REVISED: TL	DATE: 30 Nov 2012		



**NBU 1022-6G4BS
NBU 1022-6G4CS
NBU 1022-6J1BS
NBU 1022-6O1BS
NBU 1022-6J4CS**

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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 1022-6G4BS	NBU 340X	268ft
NBU 1022-6G4CS	NBU 1022-6J	617ft
NBU 1022-6J1BS	NBU 1022-6J	302ft
NBU 1022-6O1BS	NBU 1022-6O	734ft
NBU 1022-6J4CS	NBU 1022-6J	676ft

Legend

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

WELL PAD - NBU 1022-6J

TOPO C
NBU 1022-6G4BS,
NBU 1022-6G4CS, NBU 1022-6J1BS,
NBU 1022-6O1BS & NBU 1022-6J4CS
LOCATED IN SECTION 6, T10S, R22E
S.L.B.&M., UINTAH COUNTY, UTAH

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

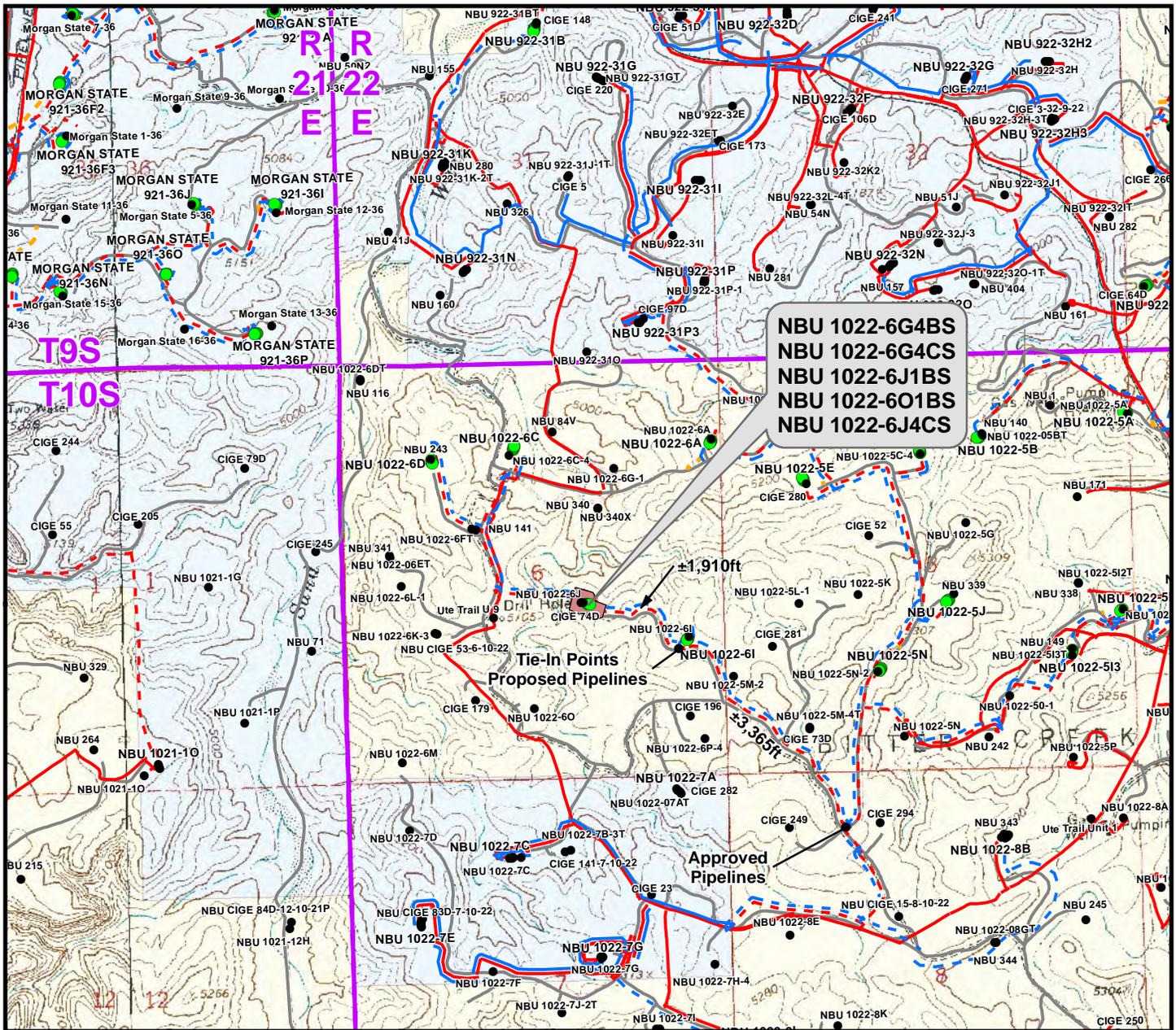
1099 18th Street
Denver, Colorado 80202



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

SCALE: 1" = 2,000ft	NAD83 USP Central	13
DRAWN: TL	DATE: 30 Nov 2012	
REVISED:	DATE:	

SHEET NO:
13 OF 17



**NBU 1022-6G4BS
 NBU 1022-6G4CS
 NBU 1022-6J1BS
 NBU 1022-6O1BS
 NBU 1022-6J4CS**

**Tie-In Points
 Proposed Pipelines**

Approved Pipelines

Proposed Liquid Pipeline	Length
Buried 6" (Max.) (Separator to 1022-6D Intersection)	±20ft
Buried 6" (Max.) (1022-6D Intersection to 1022-6I Intersection)	±1,910ft
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±1,930ft

Proposed Gas Pipeline	Length
Buried 8" (Meter House to 1022-6D Intersection)	±20ft
Buried 16" (1022-6D Intersection to 1022-6I Intersection)	±1,910ft
TOTAL PROPOSED BURIED GAS PIPELINE =	±1,930ft

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
- State
- Indian Reservation
- Private

WELL PAD - NBU 1022-6J

TOPO D
 NBU 1022-6G4BS,
 NBU 1022-6G4CS, NBU 1022-6J1BS,
 NBU 1022-6O1BS & NBU 1022-6J4CS
 LOCATED IN SECTION 6, T10S, R22E
 S.L.B.&M., UINTAH COUNTY, UTAH

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

1099 18th Street
 Denver, Colorado 80202

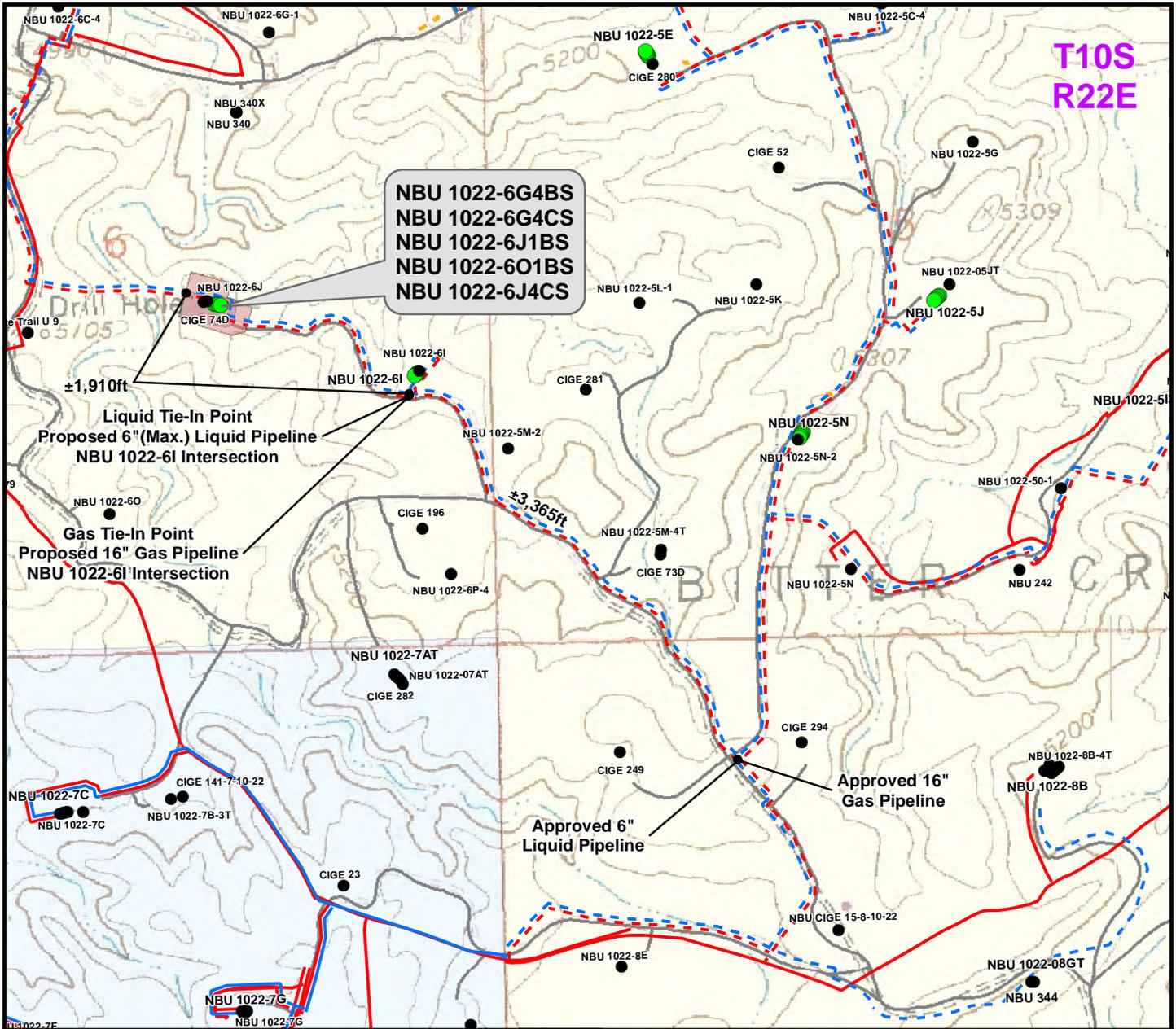
CONSULTING, LLC
 2155 North Main Street
 Sheridan, Wyoming 82801
 Phone 307-674-0609
 Fax 307-674-0182

N

SCALE: 1" = 2,000ft	NAD83 USP Central	14
DRAWN: TL	DATE: 30 Nov 2012	
REVISED:	DATE:	

SHEET NO:
14 OF 17

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**NBU 1022-6G4BS
NBU 1022-6G4CS
NBU 1022-6J1BS
NBU 1022-6O1BS
NBU 1022-6J4CS**

**T10S
R22E**

**Liquid Tie-In Point
Proposed 6\"(Max.) Liquid Pipeline
NBU 1022-6I Intersection**

**Gas Tie-In Point
Proposed 16\" Gas Pipeline
NBU 1022-6I Intersection**

**Approved 6\"
Liquid Pipeline**

**Approved 16\"
Gas Pipeline**

Proposed Liquid Pipeline	Length
=====	
Buried 6\"(Max.) (Separator to 1022-6D Intersection)	±20ft
Buried 6\"(Max.) (1022-6D Intersection to 1022-6I Intersection)	±1,910ft
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±1,930ft

Proposed Gas Pipeline	Length
=====	
Buried 8\" (Meter House to 1022-6D Intersection)	±20ft
Buried 16\" (1022-6D Intersection to 1022-6I Intersection)	±1,910ft
TOTAL PROPOSED BURIED GAS PIPELINE =	±1,930ft

Legend

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

WELL PAD - NBU 1022-6J
TOPO D2 (PAD & PIPELINE DETAIL)
NBU 1022-6G4BS,
NBU 1022-6G4CS, NBU 1022-6J1BS,
NBU 1022-6O1BS & NBU 1022-6J4CS
LOCATED IN SECTION 6, T10S, R22E
S.L.B.&M., UINTAH COUNTY, UTAH

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

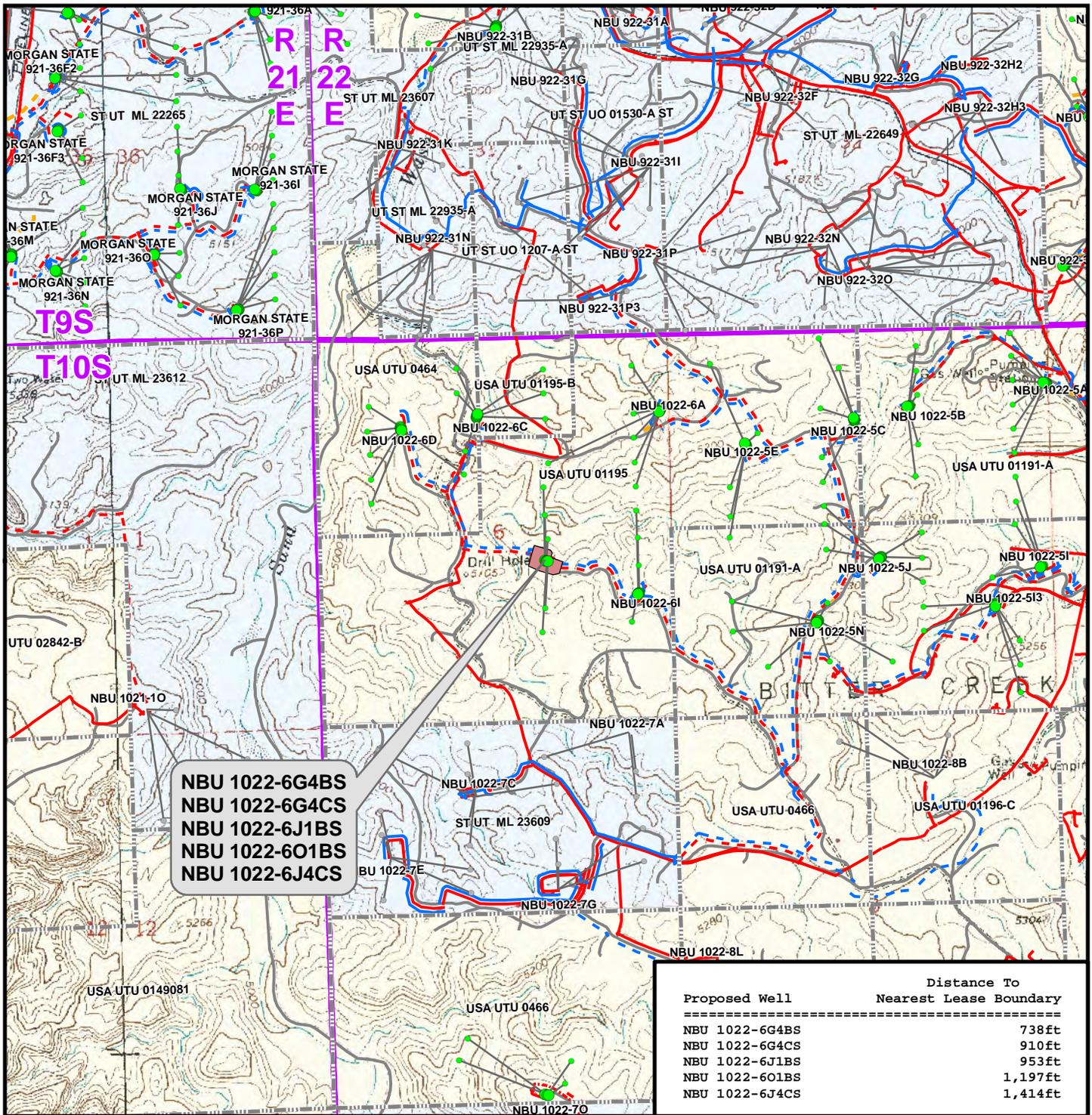
1099 18th Street
Denver, Colorado 80202

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

SCALE: 1" = 1,000ft	NAD83 USP Central	15
DRAWN: TL	DATE: 20 Sept 2012	
REVISED: TL	DATE: 30 Nov 2012	

SHEET NO:
15 OF 17

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File: K:\ANADARKO\2012\2012_54_NBU_1022-6_FOCUS\GIS\Maps_ABCDENBU_1022-6_J_E.mxd, 12/12/2012 5:04:44 PM

Legend

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

WELL PAD - NBU 1022-6J

TOPO E
NBU 1022-6G4BS,
NBU 1022-6G4CS, NBU 1022-6J1BS,
NBU 1022-6O1BS & NBU 1022-6J4CS
LOCATED IN SECTION 6, T10S, R22E
S.L.B.&M., UINTAH COUNTY, UTAH

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

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



CONSULTING, LLC

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

SCALE: 1" = 2,000ft

NAD83 USP Central

SHEET NO:

DRAWN: TL

DATE: 30 Nov 2012

16

REVISED:

DATE:

16 OF 17

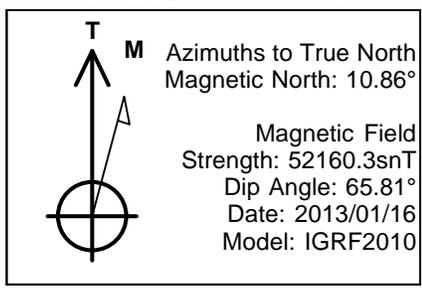
**Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 1022-6J
WELLS - NBU 1022-6G4BS,
NBU 1022-6G4CS, NBU 1022-6J1BS,
NBU 1022-6O1BS, & NBU 1022-6J4CS
Section 6, T10S, R22E, S.L.B.&M.**

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45; exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 18.7 miles to a Class D County Road to the northeast. Exit left and proceed in a northeasterly direction along the Class D County Road approximately 0.1 miles to a second Class D County Road to the southeast. Exit right and proceed in a southeasterly direction along the second Class D County Road approximately 4.0 miles to a third Class D County Road to the northwest. Exit left and proceed in a northwesterly direction along the third Class D County Road approximately 0.4 miles to the proposed well location.

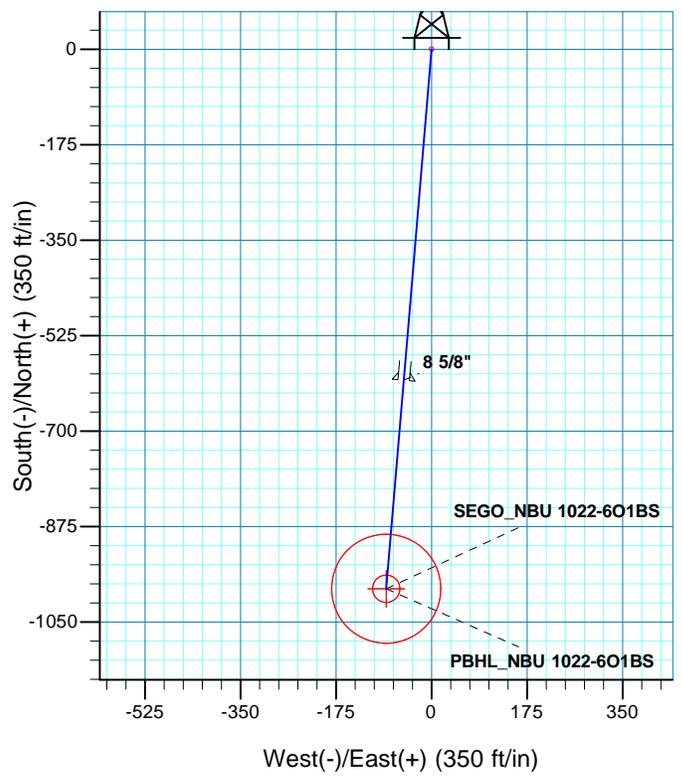
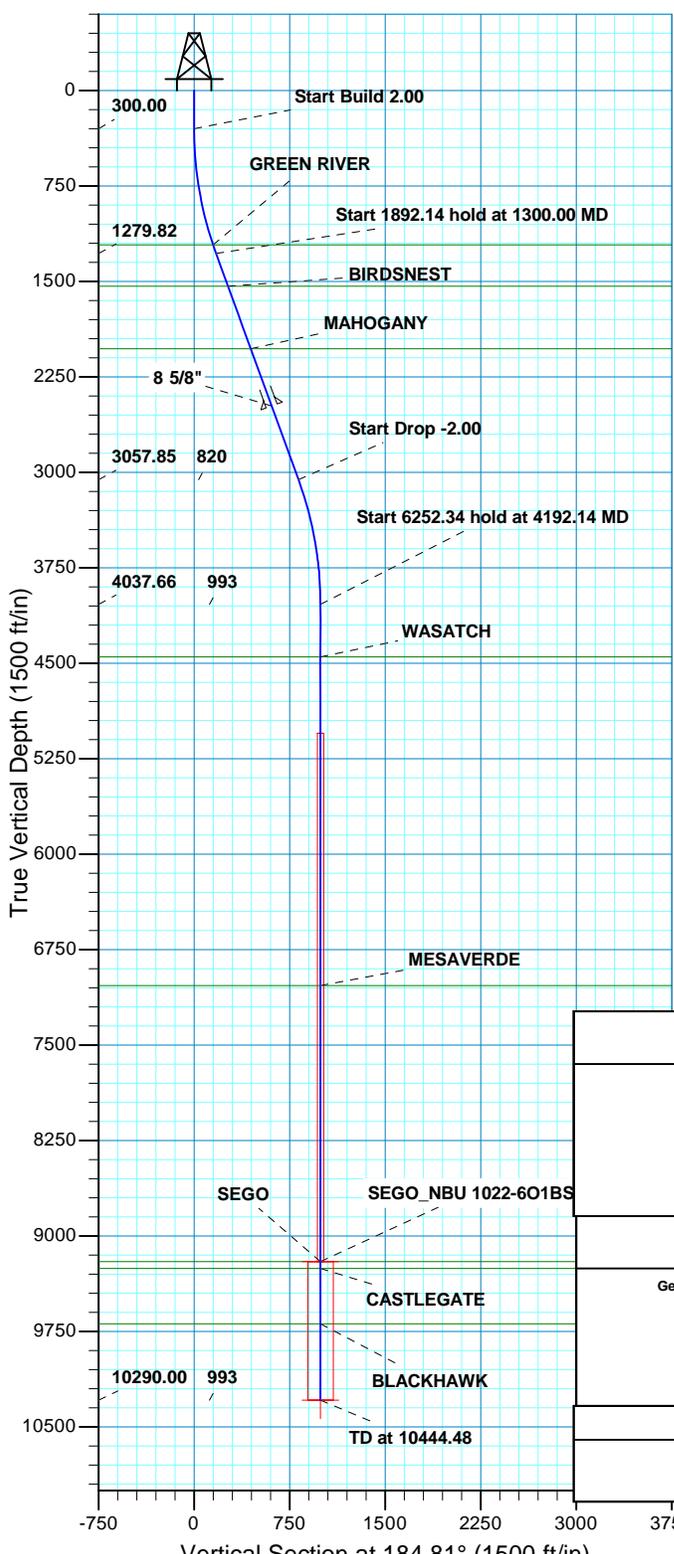
Total distance from Vernal, Utah to the proposed well location is approximately 46.7 miles in a southerly direction.



Site: NBU 1022-6J PAD
Well: NBU 1022-6O1BS
Wellbore: OH
Design: PLAN #1 PRELIMINARY



WELL DETAILS: NBU 1022-6O1BS								
GL 5108 & KB 4 @ 5112.00ft (ASSUMED)								
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude			
0.00	0.00	14521210.39	2066648.24	39.9767388	-109.4786090			
DESIGN TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
SEGO	9201.00	-989.19	-83.23	14520219.93	2066581.90	39.9740228	-109.4789060	Circle (Radius: 25.00)
- plan hits target center								
PBHL	10290.00	-989.19	-83.23	14520219.93	2066581.90	39.9740228	-109.4789060	Circle (Radius: 100.00)
- plan hits target center								



SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
1300.00	20.00	184.81	1279.82	-172.16	-14.49	2.00	184.81	172.77	
3192.14	20.00	184.81	3057.85	-817.03	-68.74	0.00	0.00	819.92	
4192.14	0.00	0.00	4037.66	-989.19	-83.23	2.00	180.00	992.69	
10444.48	0.00	0.00	10290.00	-989.19	-83.23	0.00	0.00	992.69	PBHL_NBU 1022-6O1BS

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 6 T10S R22E		
System Datum: Mean Sea Level		

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
1213.00	1229.21	GREEN RIVER
1538.00	1574.75	BIRDSNEST
2029.00	2097.27	MAHOGANY
4450.00	4604.48	WASATCH
7033.00	7187.48	MESAVERDE
9201.00	9355.48	SEGO
9255.00	9409.48	CASTLEGATE
9690.00	9844.48	BLACKHAWK

CASING DETAILS			
TVD	MD	Name	Size
2479.00	2576.15	8 5/8"	8.625

REC



US ROCKIES REGION PLANNING

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

NBU 1022-6J PAD

NBU 1022-6O1BS

OH

Plan: PLAN #1 PRELIMINARY

Standard Planning Report

16 January, 2013





SDI
Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 1022-6O1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5108 & KB 4 @ 5112.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 5108 & KB 4 @ 5112.00ft (ASSUMED)
Site:	NBU 1022-6J PAD	North Reference:	True
Well:	NBU 1022-6O1BS	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 1022-6J PAD, SECTION 6 T10S R22E				
Site Position:	Northing:	14,521,218.65 usft	Latitude:	39.9767628	
From:	Lat/Long	Easting:	2,066,619.50 usft	Longitude:	-109.4787110
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.98 °

Well	NBU 1022-6O1BS, 2186 FSL 1718 FEL					
Well Position	+N/-S	-8.74 ft	Northing:	14,521,210.40 usft	Latitude:	39.9767388
	+E/-W	28.58 ft	Easting:	2,066,648.23 usft	Longitude:	-109.4786090
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	5,108.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2013/01/16	10.86	65.81	52,160

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	184.81

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	184.81	1,279.82	-172.16	-14.49	2.00	2.00	0.00	184.81	
3,192.14	20.00	184.81	3,057.85	-817.03	-68.74	0.00	0.00	0.00	0.00	
4,192.14	0.00	0.00	4,037.66	-989.19	-83.23	2.00	-2.00	0.00	180.00	
10,444.48	0.00	0.00	10,290.00	-989.19	-83.23	0.00	0.00	0.00	0.00	PBHL_NBU 1022-6O



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 1022-6O1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5108 & KB 4 @ 5112.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 5108 & KB 4 @ 5112.00ft (ASSUMED)
Site:	NBU 1022-6J PAD	North Reference:	True
Well:	NBU 1022-6O1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00										
400.00	2.00	184.81	399.98	-1.74	-0.15	1.75	2.00	2.00	2.00	0.00
500.00	4.00	184.81	499.84	-6.95	-0.59	6.98	2.00	2.00	2.00	0.00
600.00	6.00	184.81	599.45	-15.64	-1.32	15.69	2.00	2.00	2.00	0.00
700.00	8.00	184.81	698.70	-27.78	-2.34	27.88	2.00	2.00	2.00	0.00
800.00	10.00	184.81	797.47	-43.37	-3.65	43.52	2.00	2.00	2.00	0.00
900.00	12.00	184.81	895.62	-62.38	-5.25	62.60	2.00	2.00	2.00	0.00
1,000.00	14.00	184.81	993.06	-84.80	-7.13	85.10	2.00	2.00	2.00	0.00
1,100.00	16.00	184.81	1,089.64	-110.59	-9.30	110.98	2.00	2.00	2.00	0.00
1,200.00	18.00	184.81	1,185.27	-139.72	-11.76	140.21	2.00	2.00	2.00	0.00
1,229.21	18.58	184.81	1,213.00	-148.85	-12.52	149.38	2.00	2.00	2.00	0.00
GREEN RIVER										
1,300.00	20.00	184.81	1,279.82	-172.16	-14.49	172.77	2.00	2.00	2.00	0.00
Start 1892.14 hold at 1300.00 MD										
1,400.00	20.00	184.81	1,373.78	-206.24	-17.35	206.97	0.00	0.00	0.00	0.00
1,500.00	20.00	184.81	1,467.75	-240.32	-20.22	241.17	0.00	0.00	0.00	0.00
1,574.75	20.00	184.81	1,538.00	-265.80	-22.36	266.74	0.00	0.00	0.00	0.00
BIRDSNEST										
1,600.00	20.00	184.81	1,561.72	-274.40	-23.09	275.37	0.00	0.00	0.00	0.00
1,700.00	20.00	184.81	1,655.69	-308.49	-25.96	309.58	0.00	0.00	0.00	0.00
1,800.00	20.00	184.81	1,749.66	-342.57	-28.82	343.78	0.00	0.00	0.00	0.00
1,900.00	20.00	184.81	1,843.63	-376.65	-31.69	377.98	0.00	0.00	0.00	0.00
2,000.00	20.00	184.81	1,937.60	-410.73	-34.56	412.18	0.00	0.00	0.00	0.00
2,097.27	20.00	184.81	2,029.00	-443.88	-37.35	445.45	0.00	0.00	0.00	0.00
MAHOGANY										
2,100.00	20.00	184.81	2,031.57	-444.81	-37.43	446.38	0.00	0.00	0.00	0.00
2,200.00	20.00	184.81	2,125.54	-478.89	-40.29	480.59	0.00	0.00	0.00	0.00
2,300.00	20.00	184.81	2,219.51	-512.98	-43.16	514.79	0.00	0.00	0.00	0.00
2,400.00	20.00	184.81	2,313.48	-547.06	-46.03	548.99	0.00	0.00	0.00	0.00
2,500.00	20.00	184.81	2,407.45	-581.14	-48.90	583.19	0.00	0.00	0.00	0.00
2,576.15	20.00	184.81	2,479.00	-607.09	-51.08	609.24	0.00	0.00	0.00	0.00
8 5/8"										
2,600.00	20.00	184.81	2,501.42	-615.22	-51.76	617.39	0.00	0.00	0.00	0.00
2,700.00	20.00	184.81	2,595.39	-649.30	-54.63	651.60	0.00	0.00	0.00	0.00
2,800.00	20.00	184.81	2,689.35	-683.38	-57.50	685.80	0.00	0.00	0.00	0.00
2,900.00	20.00	184.81	2,783.32	-717.47	-60.37	720.00	0.00	0.00	0.00	0.00
3,000.00	20.00	184.81	2,877.29	-751.55	-63.23	754.20	0.00	0.00	0.00	0.00
3,100.00	20.00	184.81	2,971.26	-785.63	-66.10	788.40	0.00	0.00	0.00	0.00
3,192.14	20.00	184.81	3,057.85	-817.03	-68.74	819.92	0.00	0.00	0.00	0.00
Start Drop -2.00										
3,200.00	19.84	184.81	3,065.24	-819.70	-68.97	822.60	2.00	-2.00	2.00	0.00
3,300.00	17.84	184.81	3,159.87	-851.88	-71.67	854.89	2.00	-2.00	2.00	0.00
3,400.00	15.84	184.81	3,255.58	-880.75	-74.10	883.86	2.00	-2.00	2.00	0.00
3,500.00	13.84	184.81	3,352.24	-906.28	-76.25	909.48	2.00	-2.00	2.00	0.00
3,600.00	11.84	184.81	3,449.73	-928.43	-78.12	931.71	2.00	-2.00	2.00	0.00
3,700.00	9.84	184.81	3,547.94	-947.17	-79.69	950.52	2.00	-2.00	2.00	0.00
3,800.00	7.84	184.81	3,646.74	-962.49	-80.98	965.89	2.00	-2.00	2.00	0.00
3,900.00	5.84	184.81	3,746.03	-974.36	-81.98	977.80	2.00	-2.00	2.00	0.00
4,000.00	3.84	184.81	3,845.67	-982.77	-82.69	986.24	2.00	-2.00	2.00	0.00



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 1022-6O1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5108 & KB 4 @ 5112.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 5108 & KB 4 @ 5112.00ft (ASSUMED)
Site:	NBU 1022-6J PAD	North Reference:	True
Well:	NBU 1022-6O1BS	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)
4,100.00	1.84	184.81	3,945.54	-987.71	-83.10	991.20	2.00	-2.00	0.00
4,192.14	0.00	0.00	4,037.66	-989.19	-83.23	992.69	2.00	-2.00	0.00
Start 6252.34 hold at 4192.14 MD									
4,200.00	0.00	0.00	4,045.52	-989.19	-83.23	992.69	0.00	0.00	0.00
4,300.00	0.00	0.00	4,145.52	-989.19	-83.23	992.69	0.00	0.00	0.00
4,400.00	0.00	0.00	4,245.52	-989.19	-83.23	992.69	0.00	0.00	0.00
4,500.00	0.00	0.00	4,345.52	-989.19	-83.23	992.69	0.00	0.00	0.00
4,600.00	0.00	0.00	4,445.52	-989.19	-83.23	992.69	0.00	0.00	0.00
4,604.48	0.00	0.00	4,450.00	-989.19	-83.23	992.69	0.00	0.00	0.00
WASATCH									
4,700.00	0.00	0.00	4,545.52	-989.19	-83.23	992.69	0.00	0.00	0.00
4,800.00	0.00	0.00	4,645.52	-989.19	-83.23	992.69	0.00	0.00	0.00
4,900.00	0.00	0.00	4,745.52	-989.19	-83.23	992.69	0.00	0.00	0.00
5,000.00	0.00	0.00	4,845.52	-989.19	-83.23	992.69	0.00	0.00	0.00
5,100.00	0.00	0.00	4,945.52	-989.19	-83.23	992.69	0.00	0.00	0.00
5,200.00	0.00	0.00	5,045.52	-989.19	-83.23	992.69	0.00	0.00	0.00
5,300.00	0.00	0.00	5,145.52	-989.19	-83.23	992.69	0.00	0.00	0.00
5,400.00	0.00	0.00	5,245.52	-989.19	-83.23	992.69	0.00	0.00	0.00
5,500.00	0.00	0.00	5,345.52	-989.19	-83.23	992.69	0.00	0.00	0.00
5,600.00	0.00	0.00	5,445.52	-989.19	-83.23	992.69	0.00	0.00	0.00
5,700.00	0.00	0.00	5,545.52	-989.19	-83.23	992.69	0.00	0.00	0.00
5,800.00	0.00	0.00	5,645.52	-989.19	-83.23	992.69	0.00	0.00	0.00
5,900.00	0.00	0.00	5,745.52	-989.19	-83.23	992.69	0.00	0.00	0.00
6,000.00	0.00	0.00	5,845.52	-989.19	-83.23	992.69	0.00	0.00	0.00
6,100.00	0.00	0.00	5,945.52	-989.19	-83.23	992.69	0.00	0.00	0.00
6,200.00	0.00	0.00	6,045.52	-989.19	-83.23	992.69	0.00	0.00	0.00
6,300.00	0.00	0.00	6,145.52	-989.19	-83.23	992.69	0.00	0.00	0.00
6,400.00	0.00	0.00	6,245.52	-989.19	-83.23	992.69	0.00	0.00	0.00
6,500.00	0.00	0.00	6,345.52	-989.19	-83.23	992.69	0.00	0.00	0.00
6,600.00	0.00	0.00	6,445.52	-989.19	-83.23	992.69	0.00	0.00	0.00
6,700.00	0.00	0.00	6,545.52	-989.19	-83.23	992.69	0.00	0.00	0.00
6,800.00	0.00	0.00	6,645.52	-989.19	-83.23	992.69	0.00	0.00	0.00
6,900.00	0.00	0.00	6,745.52	-989.19	-83.23	992.69	0.00	0.00	0.00
7,000.00	0.00	0.00	6,845.52	-989.19	-83.23	992.69	0.00	0.00	0.00
7,100.00	0.00	0.00	6,945.52	-989.19	-83.23	992.69	0.00	0.00	0.00
7,187.48	0.00	0.00	7,033.00	-989.19	-83.23	992.69	0.00	0.00	0.00
MESAVERDE									
7,200.00	0.00	0.00	7,045.52	-989.19	-83.23	992.69	0.00	0.00	0.00
7,300.00	0.00	0.00	7,145.52	-989.19	-83.23	992.69	0.00	0.00	0.00
7,400.00	0.00	0.00	7,245.52	-989.19	-83.23	992.69	0.00	0.00	0.00
7,500.00	0.00	0.00	7,345.52	-989.19	-83.23	992.69	0.00	0.00	0.00
7,600.00	0.00	0.00	7,445.52	-989.19	-83.23	992.69	0.00	0.00	0.00
7,700.00	0.00	0.00	7,545.52	-989.19	-83.23	992.69	0.00	0.00	0.00
7,800.00	0.00	0.00	7,645.52	-989.19	-83.23	992.69	0.00	0.00	0.00
7,900.00	0.00	0.00	7,745.52	-989.19	-83.23	992.69	0.00	0.00	0.00
8,000.00	0.00	0.00	7,845.52	-989.19	-83.23	992.69	0.00	0.00	0.00
8,100.00	0.00	0.00	7,945.52	-989.19	-83.23	992.69	0.00	0.00	0.00
8,200.00	0.00	0.00	8,045.52	-989.19	-83.23	992.69	0.00	0.00	0.00
8,300.00	0.00	0.00	8,145.52	-989.19	-83.23	992.69	0.00	0.00	0.00
8,400.00	0.00	0.00	8,245.52	-989.19	-83.23	992.69	0.00	0.00	0.00
8,500.00	0.00	0.00	8,345.52	-989.19	-83.23	992.69	0.00	0.00	0.00
8,600.00	0.00	0.00	8,445.52	-989.19	-83.23	992.69	0.00	0.00	0.00
8,700.00	0.00	0.00	8,545.52	-989.19	-83.23	992.69	0.00	0.00	0.00


SDI
 Planning Report


Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 1022-6O1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5108 & KB 4 @ 5112.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 5108 & KB 4 @ 5112.00ft (ASSUMED)
Site:	NBU 1022-6J PAD	North Reference:	True
Well:	NBU 1022-6O1BS	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	8,645.52	-989.19	-83.23	992.69	0.00	0.00	0.00
8,900.00	0.00	0.00	8,745.52	-989.19	-83.23	992.69	0.00	0.00	0.00
9,000.00	0.00	0.00	8,845.52	-989.19	-83.23	992.69	0.00	0.00	0.00
9,100.00	0.00	0.00	8,945.52	-989.19	-83.23	992.69	0.00	0.00	0.00
9,200.00	0.00	0.00	9,045.52	-989.19	-83.23	992.69	0.00	0.00	0.00
9,300.00	0.00	0.00	9,145.52	-989.19	-83.23	992.69	0.00	0.00	0.00
9,355.48	0.00	0.00	9,201.00	-989.19	-83.23	992.69	0.00	0.00	0.00
SEGO - SEGO_NBU 1022-6O1BS									
9,400.00	0.00	0.00	9,245.52	-989.19	-83.23	992.69	0.00	0.00	0.00
9,409.48	0.00	0.00	9,255.00	-989.19	-83.23	992.69	0.00	0.00	0.00
CASTLEGATE									
9,500.00	0.00	0.00	9,345.52	-989.19	-83.23	992.69	0.00	0.00	0.00
9,600.00	0.00	0.00	9,445.52	-989.19	-83.23	992.69	0.00	0.00	0.00
9,700.00	0.00	0.00	9,545.52	-989.19	-83.23	992.69	0.00	0.00	0.00
9,800.00	0.00	0.00	9,645.52	-989.19	-83.23	992.69	0.00	0.00	0.00
9,844.48	0.00	0.00	9,690.00	-989.19	-83.23	992.69	0.00	0.00	0.00
BLACKHAWK									
9,900.00	0.00	0.00	9,745.52	-989.19	-83.23	992.69	0.00	0.00	0.00
10,000.00	0.00	0.00	9,845.52	-989.19	-83.23	992.69	0.00	0.00	0.00
10,100.00	0.00	0.00	9,945.52	-989.19	-83.23	992.69	0.00	0.00	0.00
10,200.00	0.00	0.00	10,045.52	-989.19	-83.23	992.69	0.00	0.00	0.00
10,300.00	0.00	0.00	10,145.52	-989.19	-83.23	992.69	0.00	0.00	0.00
10,400.00	0.00	0.00	10,245.52	-989.19	-83.23	992.69	0.00	0.00	0.00
10,444.48	0.00	0.00	10,290.00	-989.19	-83.23	992.69	0.00	0.00	0.00
TD at 10444.48 - PBHL_NBU 1022-6O1BS									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SEGO_NBU 1022-6O1E - hit/miss target - Shape	0.00	0.00	9,201.00	-989.19	-83.23	14,520,219.93	2,066,581.89	39.9740228	-109.4789060
- plan hits target center - Circle (radius 25.00)									
PBHL_NBU 1022-6O1B - hit/miss target - Shape	0.00	0.00	10,290.00	-989.19	-83.23	14,520,219.93	2,066,581.89	39.9740228	-109.4789060
- plan hits target center - Circle (radius 100.00)									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,576.15	2,479.00	8 5/8"	8.625	11.000	



SDI
Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 1022-6O1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5108 & KB 4 @ 5112.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 5108 & KB 4 @ 5112.00ft (ASSUMED)
Site:	NBU 1022-6J PAD	North Reference:	True
Well:	NBU 1022-6O1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,229.21	1,213.00	GREEN RIVER			
1,574.75	1,538.00	BIRDSNEST			
2,097.27	2,029.00	MAHOGANY			
4,604.48	4,450.00	WASATCH			
7,187.48	7,033.00	MESAVERDE			
9,355.48	9,201.00	SEGO			
9,409.48	9,255.00	CASTLEGATE			
9,844.48	9,690.00	BLACKHAWK			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
300.00	300.00	0.00	0.00	Start Build 2.00
1,300.00	1,279.82	-172.16	-14.49	Start 1892.14 hold at 1300.00 MD
3,192.14	3,057.85	-817.03	-68.74	Start Drop -2.00
4,192.14	4,037.66	-989.19	-83.23	Start 6252.34 hold at 4192.14 MD
10,444.48	10,290.00	-989.19	-83.23	TD at 10444.48

Kerr-McGee Oil & Gas Onshore. L.P.**NBU 1022-6J PAD**

<u>API #</u>	<u>NBU 1022-6G4BS</u>	
	Surface: 2195 FSL / 1746 FEL	NWSE
	BHL: 2094 FNL / 1731 FEL	SWNE

<u>API #</u>	<u>NBU 1022-6G4CS</u>	
	Surface: 2192 FSL / 1737 FEL	NWSE
	BHL: 2480 FNL / 1726 FEL	SWNE

<u>API #</u>	<u>NBU 1022-6J1BS</u>	
	Surface: 2189 FSL / 1727 FEL	NWSE
	BHL: 2497 FSL / 1695 FEL	NWSE

<u>API #4304750685</u>	<u>NBU 1022-6J4CS</u>	
	Surface: 2183 FSL / 1708 FEL	NWSE
	BHL: 1535 FSL / 1760 FEL	NWSE

<u>API #4304750686</u>	<u>NBU 1022-6O1BS</u>	
	Surface: 2186 FSL / 1718 FEL	NWSE
	BHL: 1197 FSL / 1811 FEL	SWSE

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

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

An on-site meeting was held on October 10, 2012. Present were:

- Dave Gordon, Melissa Wardle, Aaron Roe and Lynn Dehner - BLM
- Jacob Dunham and Mitch Batty - 609 Consulting, LLC and Timberline Engineering & Land Surveying, Inc.
- Alan Rabinoff- ICF International
- Gina Becker, Tony Kazeck, Casey McKee, Charles Chase and Robert Townley- 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.

There are no new or road re-routes planned for this pad.

C. Location of Existing Wells:

Please refer to Topo C for existing wells.

D. Location of Existing and/or Proposed Facilities:

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

This pad will expand the existing pad for the NBU 1022-6J, which is a producing gas well and the CIGE 74D, which is a plugged and abandoned location according to Utah Division of Oil, Gas and Mining (UDOGM) records on January 18, 2013. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (Kerr-McGee).

GAS GATHERING

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

The total gas gathering pipeline distance from the meter to the tie in point is $\pm 5,295'$ and the individual segments are broken up as follows:

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

- $\pm 20'$ (0.004 miles) – Section 6 T10S R22E (NW/4 SE/4) – On-lease UTU-01195, BLM surface, New 8" buried gas gathering pipeline from the meter to the proposed new 16" buried gas gathering pipeline at the NBU 1022-6D intersection. Please refer to Topo D2 - Pad and Pipeline Detail.
- $\pm 1,910'$ (0.4 miles) – Section 6 T10S R22E (NW/4 SE/4) – On-lease UTU-01195, BLM surface, New 16" buried gas gathering pipeline from the NBU 1022-6D intersection traveling southeast to the NBU 1022-6I Pad intersection. This pipeline runs concurrently with the NBU 1022-6C and 1022-6D Pads. Please refer to Exhibit A, Line 2.
- $\pm 3,365'$ (0.6 miles) – Section 6 T10S R22E (NE/4 SE/4) – On-lease UTU-01195, UTU-01191-A & UTU-466, BLM surface, New 16" buried gas gathering pipeline from the NBU 1022-6I intersection traveling southeast to the tie-in point at the approved 16" buried gas gathering pipeline in the NE/4 NW/4, Section 8, T10S-R22E. This pipeline runs concurrently with the NBU 1022-6C, 1022-6D and 1022-6I Pads. 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 $\pm 5,295'$ and the individual segments are broken up as follows:

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

- ±20' (0.004 miles) – Section 6 T10S R22E (NW/4 SE/4) – On-lease UTU-01195, BLM surface, New 6" buried liquid gathering pipeline from the meter to the proposed new 16" buried liquid gathering pipeline at the NBU 1022-6D intersection. Please refer to Topo D2 - Pad and Pipeline Detail.
- ±1,910' (0.4 miles) – Section 6 T10S R22E (NW/4 SE/4) – On-lease UTU-01195, BLM surface, New 6" buried liquid gathering pipeline from the NBU 1022-6D intersection traveling southeast to the NBU 1022-6I Pad intersection. This pipeline runs concurrently with the NBU 1022-6C and 1022-6D Pads. Please refer to Exhibit B, Line 2.
- ±3,365' (0.6 miles) – Section 6 T10S R22E (NE/4 SE/4) – On-lease UTU-01195, UTU-01191-A & UTU-466, BLM surface, New 6" buried liquid gathering pipeline from the NBU 1022-6I intersection traveling southeast to the tie-in point at the approved 6" buried liquid gathering pipeline in the NE/4 NW/4, Section 8, T10S-R22E. This pipeline runs concurrently with the NBU 1022-6C, 1022-6D and 1022-6I Pads. 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.

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.

Resource Reports:

A Class I literature survey was completed on October 31, 2012 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC 12-311.

NBU 1022-6G4BS/ 1022-6G4CS/ 1022-6J1BS/ 1022-6J4CS/
1022-6O1BS

Surface Use Plan of Operations

5 of 6

A paleontological reconnaissance survey was completed on May 31, 2010 by IPC Block Survey. SWCA Environmental Consultants has prepared the survey report. For additional details please refer to report UT12-14314-207.

Biological field survey was completed on October 16, 2012 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-861.

Proposed Action Annual Emissions Tables:

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

NBU 1022-6G4BS/ 1022-6G4CS/ 1022-6J1BS/ 1022-6J4CS/
1022-6O1BS

Surface Use Plan of Operations
6 of 6

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 21, 2013

Date

RECEIVED

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

UNITED STATES **JAN 29 2013**
DEPARTMENT OF THE INTERIOR **09-02-09**
BUREAU OF LAND MANAGEMENT
BLM, Vernal Utah
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-01195
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. If Unit or CA Agreement, Name and No. UTU63047A 0
3a. Address P.O. BOX 173779 DENVER, COLORADO 80202-3779		8. Lease Name and Well No. NBU 1022-601BS
3b. Phone No. (include area code) PHONE 720-929-6086 FAX 720-929-7086		9. API Well No. 4304750686
4. Location of well (Report location clearly and in accordance with any State requirements. *) At surface NWSE Lot 0 2186 FSL 1718 FEL LAT = 39.976704 LONG = -109.479294 At proposed prod. Zone SWSE Lot 0 1197 FSL 1811 FEL LAT = 39.973988 LONG = -109.479591		10. Field and Pool, or Exploratory NATURAL BUTTES
14. Distance in miles and direction from the nearest town or post office* Approximately 47 miles Southeast of Vernal, Utah		11. Sec., T., R., M., or Blk. and Survey or Area 6 T 10S R 22E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. unit line, if any) 1197	16. No. of acres in lease 577.75	12. County or Parish UINTAH
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 734	19. Proposed Depth 10445 MD 10290 TVD	13. State UT
21. Elevations (Show whether DF, RT, GR, etc.) 5107.9 GR	22. Approximate date work will start* 8/1/2013	20. BLM/ BIA Bond No. on file WYB000291
23. Estimated duration 60-90 DAYS		

RECEIVED
JUN 12 2013
BLM 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. | 4. Bond to cover the operations unless covered by existing bond on file (see item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/ or plans as may be required by the a authorized officer. |

25. Signature 	Name (Printed/ Typed) GINA T BECKER	Date January 28, 2013
Title SENIOR REGULATORY ANALYST		

Approved By (Signature) 	Name (Printed/ Typed) Jerry Kenczka	Date JUN 10 2013
Title Assistant Field Manager Lands & Mineral Resources		Office VERNAL FIELD OFFICE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

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.

Kerr-McGee Oil & Gas Onshore, L.P. hereby certifies that it is authorized by the proper lease interest owners and responsible under the terms and conditions of the lease to conduct lease operation associated with this application.

NOTICE OF APPROVAL





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: NWSE, Sec. 6, T10S, R22E
Well No: NBU 1022-601BS Lease No: UTU-01195
API No: 43-047-50686 Agreement: Natural Butte

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

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

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

NOTIFICATION REQUIREMENTS

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

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

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.
- Mitigation measures can be found in Appendix B, Table B-2, of the GNB ROD (BLM 2012b) under the following sections of the table:
 - Air Quality
 - Soils
 - Vegetation: *Sclerocactus wetlandicus*
 - Wildlife: Colorado River Fish
- Where populations or individuals of *Sclerocactus wetlandicus* are located within 300 feet of the proposed edge of project ROWs, the following actions will be taken to minimize impacts:
 - 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.
 - Pipelines will be sited to maximize distance from adjacent cacti locations.
 - 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.
- For permanent surface pipelines, KMG will adhere to existing cacti survey/buffer guidelines of 300 feet, or amended guidelines if developed by the BLM and USFWS. In areas where avoidance by 300 feet is not feasible and populations or individuals of *Sclerocactus wetlandicus* are within 50 feet of proposed project components, the following actions will be taken to minimize impacts:
 - Prior to construction, flag individual cactus. Once pipe installation is complete, remove the flagging.

- Prior to construction, 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.
- 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 surface water completion lines are placed within the footprint of a road disturbance where vegetation does not grow, *Sclerocactus wetlandicus* surveys will not be necessary.
 - A qualified botanist will survey a 50-foot-wide corridor along roads where temporary lines are planned to ensure *Sclerocactus wetlandicus* is not present.
 - 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.
- Avoidance of cactus by 300 feet will take priority in the expansion of pads within the cactus core conservation areas. When the 300-foot buffer cannot be avoided in pad expansion, KMG will notify the USFWS and work with the BLM to determine pad expansion that places a priority on avoiding cactus impacts.
- KMG will follow existing ROWs and/or roads in constructing new buried pipelines within the cactus core conservation areas. For instance, where a new buried pipeline is unable to follow an existing ROW and/or road and exceeds 600 feet in length, KMG will work with the USFWS and the BLM to determine a route that places a priority on avoiding cactus impacts.
- Maintenance activities on pipelines within cactus core conservation areas will avoid impacts to cactus, to the extent possible.
- All vehicles and equipment shall be cleaned either through power-washing, or other approved method, if the vehicles or equipment were previously operated outside the Uinta Basin, to prevent weed seed introduction.
- All disturbance areas shall be monitored for noxious weeds annually, for a minimum of three growing seasons following completion of project or until desirable vegetation is established

- Noxious and invasive weeds will be controlled throughout the area of project disturbance.
- Noxious weeds will be inventoried and reported to BLM in the annual reclamation report. Where an integrated pest management program is applicable, coordination has been undertaken with the state and local management program (if existing). A copy of the pest management plan will be submitted for each project.
- A pesticide use permit (PUP) will be obtained for the project, if applicable.
- 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).
- Tree removal within pinyon-juniper habitat will occur outside of the nesting season for migratory birds (approximately 4/1 to 7/31 (BLM 2012b).
- Damage to livestock and livestock facilities would be reported as quickly as possible to the BLM and affected livestock operators. Operators would develop and employ prevention measures to avoid damaging fences, gates, and cattle guards, including upgrading cattle guard gate widths and load-bearing requirements and fencing all open pits and cellars.
- If partial or complete removal of a fence cannot be avoided, the fence would be braced and tied off per the BLM guidance. Where the fence is crossed by a road, the fence would be braced and a cattle guard and gate installed per BLM guidance.

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

SITE SPECIFIC DOWNHOLE COAs:

- Gamma Ray Log shall be run from Total Depth to Surface.
- CBL will be run from TD to TOC.
- Kerr-McGee Oil & Gas Onshore L.P.. shall adhere to all referenced requirements in the SOP (version: "Standard Operating Practice Agreement for the Greater Natural Buttes Field", Oct 21, 2012). The operator shall also comply with applicable laws and regulations; with lease terms Onshore Oil and Gas Orders, NTL's; and with other orders and instructions of the, authorized officer.

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

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

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

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

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (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
SUNDRY NOTICES AND REPORTS ON WELLS	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
1. TYPE OF WELL Gas Well	5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 01195
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2186 FSL 1718 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 06 Township: 10.0S Range: 22.0E Meridian: S	8. WELL NAME and NUMBER: NBU 1022-6O1BS
PHONE NUMBER: 720 929-6511	9. API NUMBER: 43047506860000
9. FIELD and POOL or WILDCAT: NATURAL BUTTES	COUNTY: UINTAH
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 9/1/2013	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

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

Approved by the Utah Division of Oil, Gas and Mining

Date: August 15, 2013

By:

NAME (PLEASE PRINT) Teena Paulo	PHONE NUMBER 720 929-6236	TITLE Staff Regulatory Specialist
SIGNATURE N/A	DATE 8/13/2013	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047506860000

API: 43047506860000

Well Name: NBU 1022-601BS

Location: 2186 FSL 1718 FEL QTR NWSE SEC 06 TWNP 100S RNG 220E MER S

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

Date Original Permit Issued: 9/1/2009

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: 8/13/2013

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 01195
1. TYPE OF WELL Gas Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	8. WELL NAME and NUMBER: NBU 1022-6O1BS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2186 FSL 1718 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 06 Township: 10.0S Range: 22.0E Meridian: S	9. API NUMBER: 43047506860000
PHONE NUMBER: 720 929-6100	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
	COUNTY: UINTAH
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 9/1/2014	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
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	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

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

Approved by the
August 11, 2014
Oil, Gas and Mining

Date: _____
 By:

NAME (PLEASE PRINT) Teena Paulo	PHONE NUMBER 720 929-6236	TITLE Staff Regulatory Specialist
SIGNATURE N/A		DATE 8/7/2014



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 43047506860000

API: 43047506860000

Well Name: NBU 1022-601BS

Location: 2186 FSL 1718 FEL QTR NWSE SEC 06 TWNP 100S RNG 220E MER S

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- 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: 8/7/2014

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MAY 08 2015

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

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

BLM

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. UTU01195
2. Name of Operator KERR MCGEE OIL & GAS ONSHORE-Mail: JENNIFER.THOMAS@ANADARKO.COM		6. If Indian, Allottee or Tribe Name
3a. Address P.O. BOX 173779 1099 18TH STREET, SUITE 600 DENVER, CO 80217		7. If Unit or CA/Agreement, Name and/or No. UTU63047A
3b. Phone No. (include area code) Ph: 720-929-6808		8. Well Name and No. NBU 1022-601BS
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 6 T10S R22E Mer SLB SSSSE		9. API Well No. 43-047-50686
		10. Field and Pool, or Exploratory NATURAL BUTTES
		11. County or Parish, and State UINTAH COUNTY, UT

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

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

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

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

APD - 6/10/13
NEPA - 2012-179 EA

RECEIVED
JUN 15 2015
DIV. OF OIL, GAS & MINING

VERNAL FIELD OFFICE	
ENG.	<i>RJR 6/3/15</i>
GEOLOG.	
E.S.	
PET.	
RECL.	

CONDITIONS OF APPROVAL ATTACHED

14. I hereby certify that the foregoing is true and correct. Electronic Submission #301212 verified by the BLM Well Information System For KERR MCGEE OIL & GAS ONSHORE, sent to the Vernal Committed to AFMSS for processing by JOHNETTA MAGEE on 05/12/2015 ()	
Name (Printed/Typed) JENNIFER THOMAS	Title REGULATORY SPECIALIST
Signature (Electronic Submission)	Date 05/08/2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <i>Jennifer Thomas</i>	Assistant Field Manager	JUN 05 2015
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Title Lands & Mineral Resources	
	Office VERNAL FIELD OFFICE	

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

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

UDOGM

CONDITIONS OF APPROVAL

Kerr McGee Oil and Gas Onshore LP.

Notice of Intent APD Extension

Lease: UTU-01195
Well: NBU 1022-601BS
Location: SWSE Sec 6-T10S-R22E

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

1. The extension and APD shall expire on 06/10/2017.
2. No other extension shall be granted.

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 01195	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES	
8. WELL NAME and NUMBER: NBU 1022-601BS	
9. API NUMBER: 43047506860000	
9. FIELD and POOL or WILDCAT: NATURAL BUTTES	
COUNTY: UINTAH	
STATE: UTAH	

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. TYPE OF WELL Gas Well	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6100
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2186 FSL 1718 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 06 Township: 10.0S Range: 22.0E Meridian: S	

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 8/14/2015	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

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

Approved by the
August 17, 2015
Oil, Gas and Mining

Date: _____

By:

NAME (PLEASE PRINT) Jennifer Thomas	PHONE NUMBER 720 929-6808	TITLE Regulatory Specialist
SIGNATURE N/A	DATE 8/14/2015	



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 43047506860000

API: 43047506860000

Well Name: NBU 1022-601BS

Location: 2186 FSL 1718 FEL QTR NWSE SEC 06 TWNP 100S RNG 220E MER S

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

Date Original Permit Issued: 9/1/2009

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

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

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

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

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

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

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

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

Signature: Jennifer Thomas

Date: 8/14/2015

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
1. TYPE OF WELL Gas Well	5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 01195
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2186 FSL 1718 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 06 Township: 10.0S Range: 22.0E Meridian: S	8. WELL NAME and NUMBER: NBU 1022-6O1BS
PHONE NUMBER: 720 929-6454	9. API NUMBER: 43047506860000
9. FIELD and POOL or WILDCAT: NATURAL BUTTES	COUNTY: UINTAH
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 8/30/2016	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
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	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

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
August 31, 2016
Oil, Gas and Mining

Date: _____
By: 

NAME (PLEASE PRINT) Joel Malefy	PHONE NUMBER 720 929-6828	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 8/30/2016	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047506860000

API: 43047506860000

Well Name: NBU 1022-601BS

Location: 2186 FSL 1718 FEL QTR NWSE SEC 06 TWNP 100S RNG 220E MER S

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- 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: 8/30/2016

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