KerrMcGee

Kerr-McGee Oil & Gas Onshore LP
1999 Broadway, Suite 3700
Denver, CO 80205

September 19, 2007

Mrs. 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 922-18F1CS
T9S R22E
Section 18: SENW
SWNW, Lot 2, 1892' FNL, 387' FWL (surface)
SENW 1724' FNL, 1956' FWL (bottom hole)
Uintah County, Utah

Dear Mrs. 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 922-18F1CS 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 and the W/2, W/2NE/4 and SE/4 of Section 18 (federal leases USA UTU-0359, USA-UTU 0359-A and USA-UTU 0461).

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

James C. Colligan III
Landman

Form 3160-3
(August 1999)

FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: **UTU-0359**

6. If Indian, Allottee or Tribe Name: **TRIBAL SURFACE**

1a. Type of Work: [X] DRILL [ ] REENTER

7. If Unit or CA Agreement, Name and No.: **UNIT #891008900A**

b. Type of Well: [ ] Oil Well [X] Gas Well [ ] Other [ ] Single Zone [X] Multiple Zone

8. Lease Name and Well No.: **NBU 922-18F1CS**

2. Name of Operator: **KERR MCGEE OIL AND GAS ONSHORE LP**

9. API Well No.: **43-047-39838**

3A. Address: **1368 SOUTH 1200 EAST VERNAL, UT 84078**

3b. Phone No. *(include area code)*: **(435) 781-7024**

10. Field and Pool, or Exploratory: **NATURAL BUTTES**

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface: **SW/NW 1892'FNL, 387'FWL (LOT 2)**
At proposed prod. Zone: **SE/NW 1724'FNL, 1956'FWL**

11. Sec., T., R., M., or Blk, and Survey or Area: **SEC. 18, T9S, R22E**

14. Distance in miles and direction from nearest town or post office*: **17 +/- MILES FROM OURAY, UTAH**

12. County or Parish: **UINTAH**

13. State: **UTAH**

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any): **387'**

16. No. of Acres in lease: **162.39**

17. Spacing Unit dedicated to this well: **40.00**

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.: **REFER TO TOPO C**

19. Proposed Depth: **10,143'**

20. BLM/BIA Bond No. on file: **RLB0005239**

21. Elevations (Show whether DF, KDB, RT, GL, etc.): **4894'GL**

22. Approximate date work will start*: **UPON APPROVAL**

23. Estimated duration: **TO BE DETERMINED**

24. Attachments

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

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

25. Signature: Sheila Upchego — Name *(Printed/Typed)*: **SHEILA UPCHEGO** — Date: **11/16/2007**

Title: **SENIOR LAND ADMIN SPECIALIST**

Approved by *(Signature)*: — Name *(Printed/Typed)*: **BRADLEY G. HILL** — Date: **12-03-07**

Title: — Office: **ENVIRONMENTAL MANAGER**

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.

Title 18 U.S.C. Section 1001and 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.

**(Instructions on reverse)*

Federal Approval of this Action is Necessary

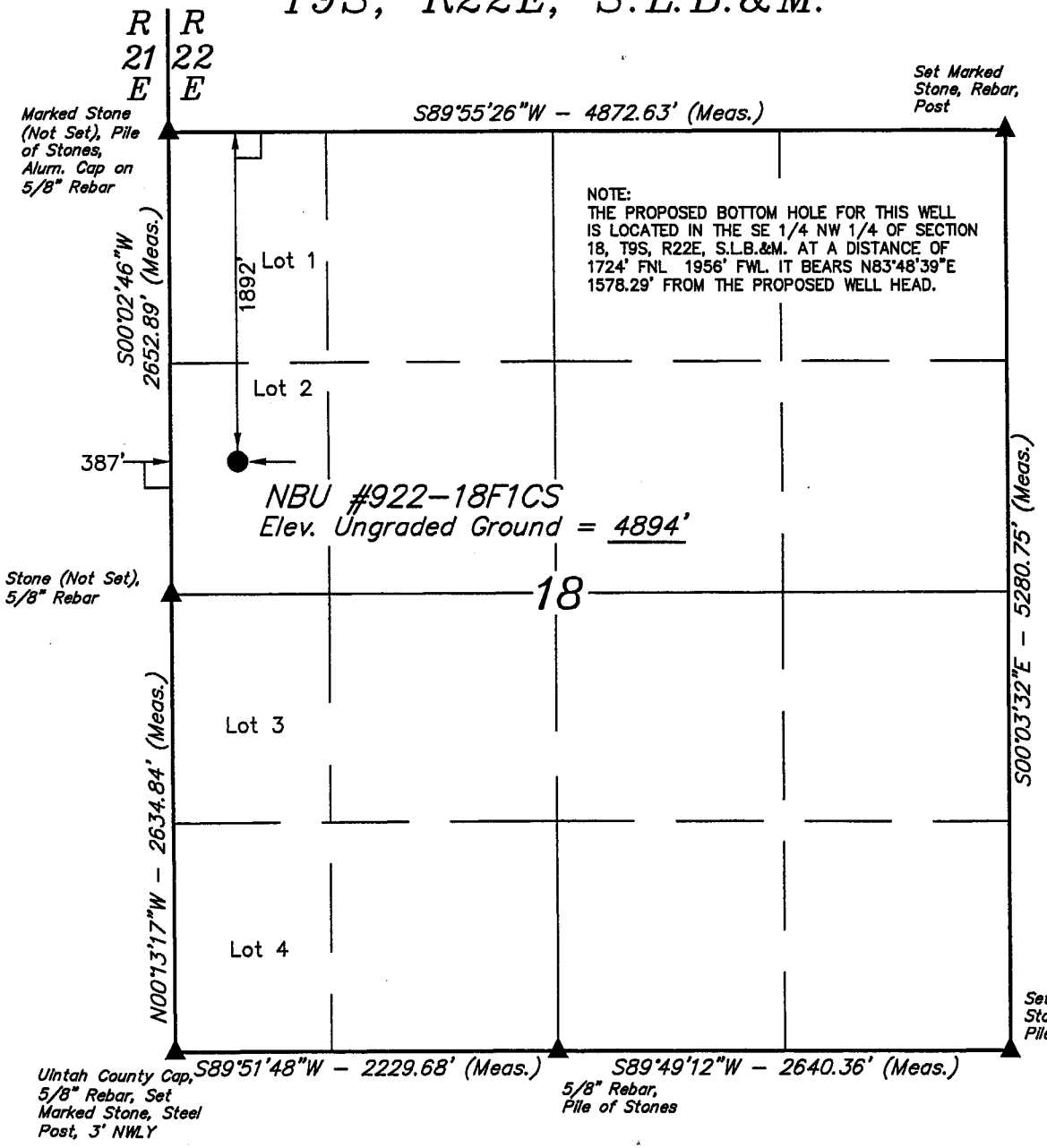
RECEIVED
NOV 20 2007
DIV. OF OIL, GAS & MINING

Surf
628953X
4432865 4
40.038058
-109.488524

BHL
629430X
4432925 4
40.038523
-109.482927

Kerr-McGee Oil & Gas Onshore LP

Well location, NBU #922-18F1CS, located as shown in Lot 2 of Section 18, T9S, R22E, S.L.B.&M., Uintah County, Utah.

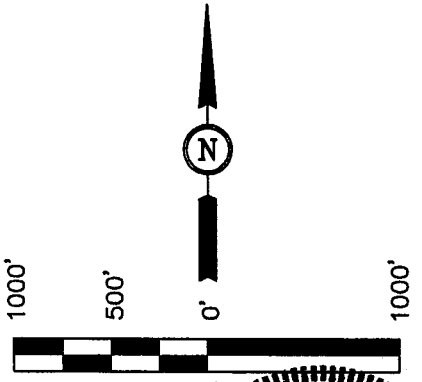


BASIS OF ELEVATION

BENCH MARK (20EAM) LOCATED IN THE SE 1/4 OF SECTION 35, T8S, R21E, S.L.B.&M. TAKEN FROM THE OURAY SE QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4697 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

REGISTERED LAND SURVEYOR No. 161319 ROBERT L. KAY STATE OF UTAH

LEGEND:

- └ = 90° SYMBOL
- ● = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

(NAD 83)
LATITUDE = 40°02'16.99" (40.038053)
LONGITUDE = 109°29'21.65" (109.489347)
(NAD 27)
LATITUDE = 40°02'17.12" (40.038089)
LONGITUDE = 109°29'19.18" (109.488661)

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

SCALE	DATE SURVEYED:	DATE DRAWN:
1" = 1000'	05-07-07	05-17-07
PARTY: D.K. L.K. C.H.	REFERENCES: G.L.O. PLAT	
WEATHER: WARM	FILE: Kerr-McGee Oil & Gas Onshore LP	

NBU 922-18F1CS
SW/NW LOT 2, SEC. 18, T9S, R22E
UINTAH COUNTY, UTAH
UTU-0359

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. **Estimated Tops of Important Geologic Markers:**

Formation	Depth
Uinta	0- Surface
Green River	1809'
Top of Birds Nest Water	2095'
Mahogany	2452'
Wasatch	5061'
Mesaverde	7772'
MVU2	8708'
MVL1	9220'
TVD	9850'
TD (MD)	10,143'

2. **Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

Substance	Formation	Depth
	Green River	1809'
	Top of Birds Nest Water	2095'
	Mahogany	2452'
Gas	Wasatch	5061'
Gas	Mesaverde	7772'
Gas	MVU2	8708'
Gas	MVL1	9220'
Water	N/A	
Other Minerals	N/A	

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

Please see the Natural Buttes Unit Standard Operating Procedure (SOP).

4. **Proposed Casing & Cementing Program:**

Please see the Natural Buttes Unit SOP.

5. **Drilling Fluids Program:**

Please see the Natural Buttes Unit SOP.

6. **Evaluation Program:**

Please see the Natural Buttes Unit SOP.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 10,143' TD, approximately equals 6289 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 4058 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 see Natural Buttes Unit SOP.

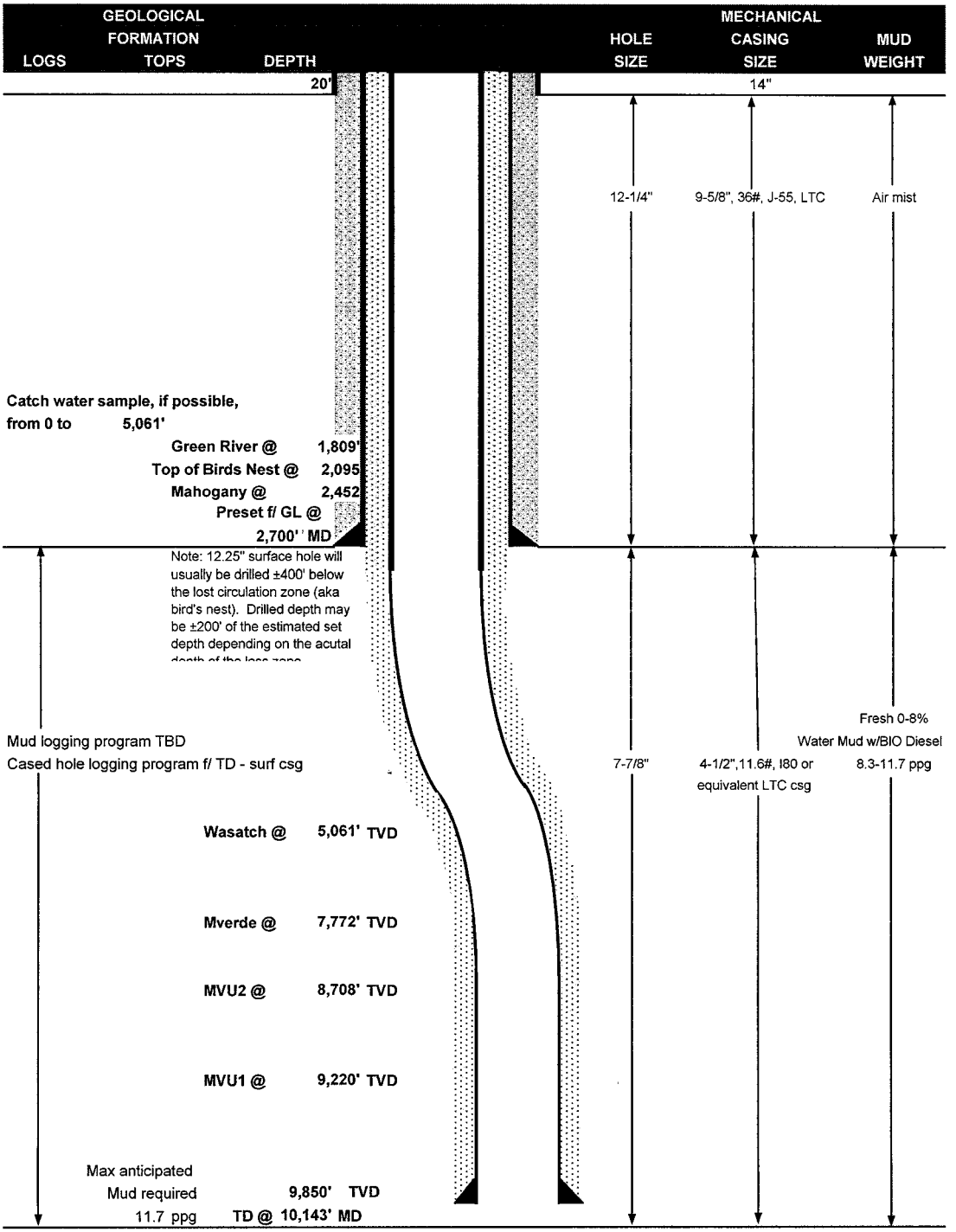
10. **Other Information:**

Please see Natural Buttes Unit SOP.

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP	DATE	November 16, 2007
WELL NAME	**NBU 922-18F1CS**	TD	10,143' MD 9,850' TVD
FIELD	Natural Buttes	COUNTY Uintah STATE Utah	ELEVATION 4,893' GL KB 4,908'
SURFACE LOCATION	SW/NW LOT 2, SEC. 18, T9S, R22E 1892'FNL, 387'FWL		
	Latitude: 40.038053 Longitude: 109.489347		
BTM HOLE LOCATION	SE/NW SEC. 18, T9S, R22E 1724'FNL, 1956'FWL		
OBJECTIVE ZONE(S)	Wasatch/Mesaverde		
ADDITIONAL INFO	Regulatory Agencies: TRIBAL SURFACE, BLM MINERALS, UDOGM, Tri-County Health Dept.		



KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
						3520	2020	453000
SURFACE	9-5/8"	0 to 2700	36.00	J-55	LTC	0.89	1.60	5.93
						7780	6350	201000
PRODUCTION	4-1/2"	0 to 10143	11.60	I-80	LTC	1.97	1.03	1.96

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 - (.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 0.0 ppg) .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 3940 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
Option 1							
	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	50		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE			NOTE: If well will circulate water to surface, option 2 will be utilized				
Option 2	LEAD	1500	65/35 Poz + 6% Gel + 10 pps gilsonite + .25 pps Flocele + 3% salt BWOW	360	35%	12.60	1.81
	TAIL	500	Premium cmt + 2% CaCl + .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	7,263'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	790	60%	11.00	3.38
	TAIL	2,880'	50/50 Poz/G + 10% salt + 2% gel +.1% R-3	810	60%	14.30	1.31

*Substitute caliper hole volume plus 15% excess 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. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

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. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

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

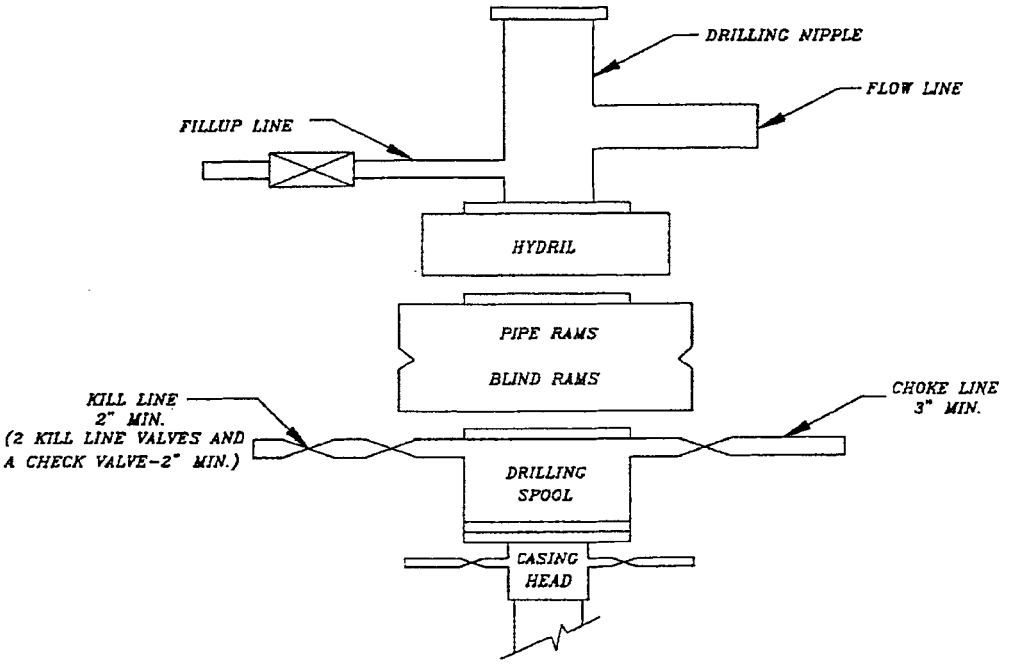
DRILLING ENGINEER: _____ **DATE:** _____

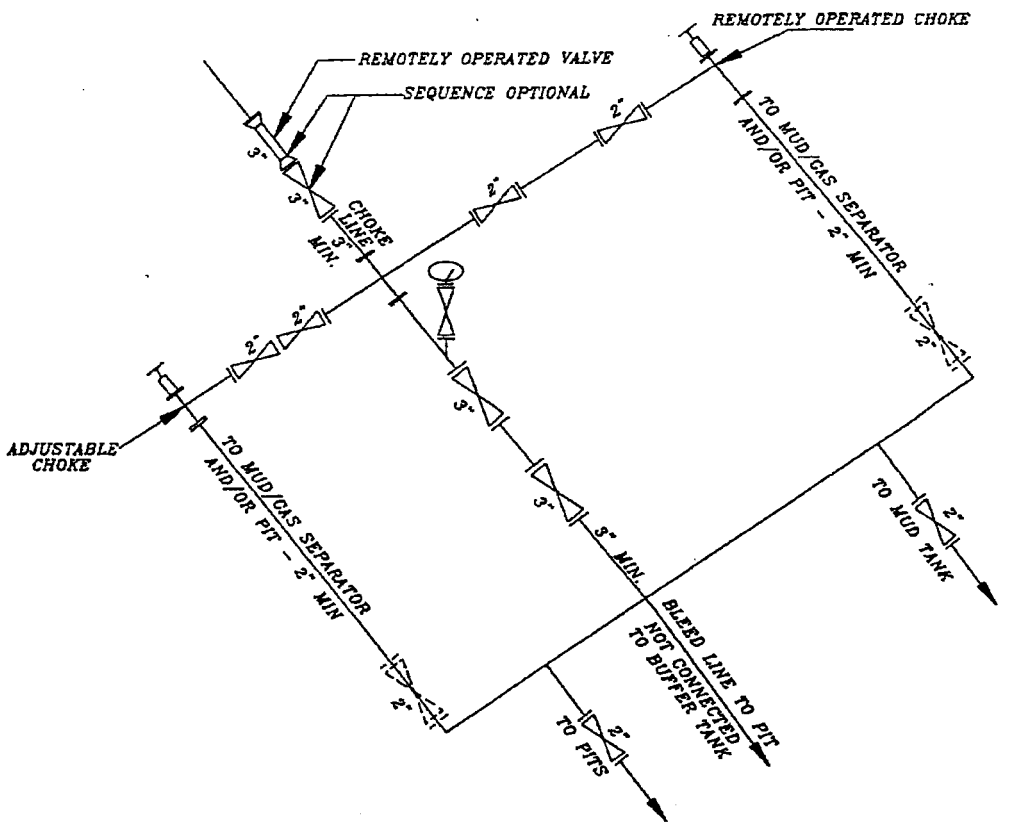
Brad Laney

DRILLING SUPERINTENDENT: _____ **DATE:** _____

Randy Bayne

5M BOP STACK and CHOKE MANIFOLD SYSTEM





Weatherford

Drilling Services

Proposal

Anadarko KerrMcGee

ANADARKO - KERR McGEE

NBU 922-18F1CS

UINTAH COUNTY, UTAH

WELL FILE: PLAN 1

SEPTEMBER 24, 2007

Weatherford International, Ltd.
15710 John F. Kennedy Blvd
Houston, Texas 77032 USA
+1.281.260.1300 Main
+1.281.260.4730 Fax
www.weatherford.com

ANADARKO KERR MCGEE OIL & GAS
NBU 922-18F1CS
UINTAH COUNTY, UTAH

Azimuths to Grid North
True North: -0.97°
Magnetic North: 10.60°

Magnetic Field
Strength: 52769nT
Dip Angle: 66.02°
Date: 9/21/2007
Model: bggm2006

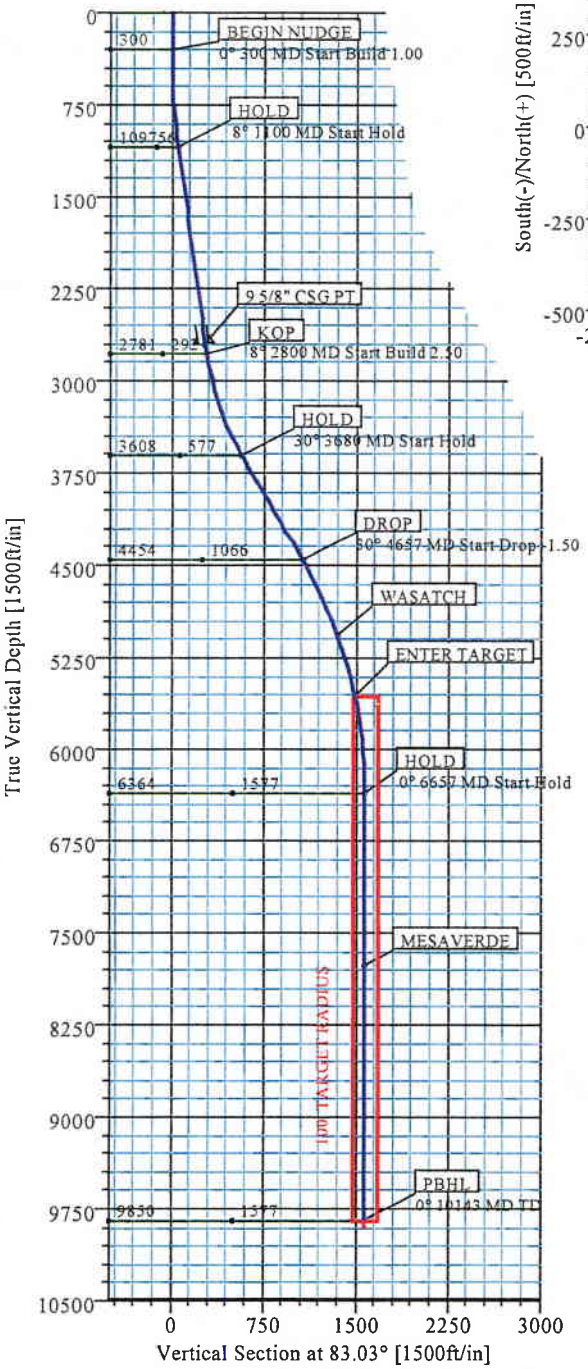
SECTION DETAILS

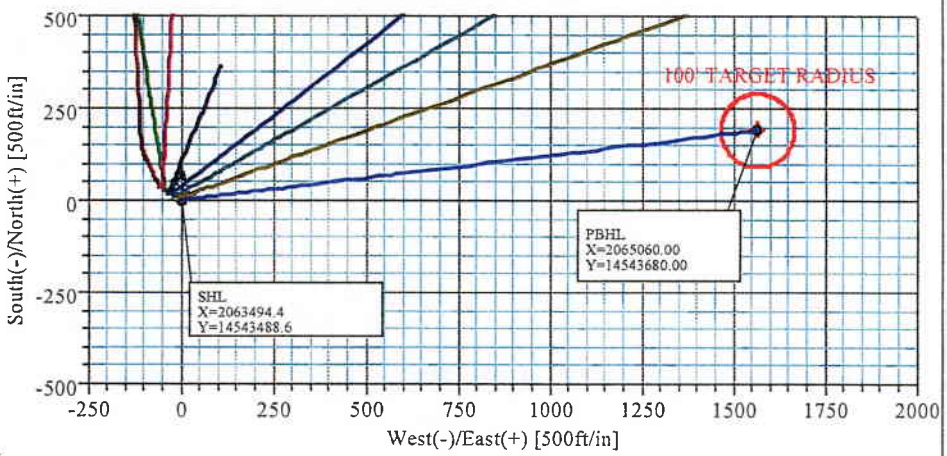
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	83.03	0.00	0.00	0.00	0.00	0.00	0.00	
2	300.00	0.00	83.03	300.00	0.00	0.00	0.00	83.03	0.00	
3	1100.00	8.00	83.03	1097.40	6.77	55.35	1.00	83.03	55.76	
4	2800.00	8.00	83.03	2780.86	35.48	290.19	0.00	0.00	292.35	
5	3680.00	30.00	83.03	3607.81	70.03	572.83	2.50	0.00	577.10	
6	4656.83	30.00	83.03	4453.77	129.30	1057.64	0.00	0.00	1065.51	
7	6656.83	0.00	83.03	6363.63	191.40	1565.60	1.50	180.00	1577.26	
8	10143.20	0.00	83.03	9850.00	191.40	1565.60	0.00	0.00	1577.26	PBHL

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
922-18F1CS	0.00	0.00	14543488.60	2063494.40	40°02'16.965N	109°29'18.651W	N/A

KB = 4908'
GR = 4893'





LEGEND
- 922-18C4BS
- 922-18C4CS
- 922-18D2S
- 922-18D3BS
- 922-18D3DS
- 922-18E2S
- 922-18F1BS
- 922-18F1CS
- Plan #1

FORMATION TOP DETAILS

No.	TVDPath	MDPath	Formation
1	5061.00	5327.53	WASATCH
2	7772.00	8065.20	MESAVERDE

FIELD DETAILS

UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)

Geodetic System: Universal Transverse Mercator (USfeet)
Ellipsoid: NAD27 (Clarke 1866)
Zone: UTM Zone 12, North 114W to 108W
Magnetic Model: bggm2006

System Datum: Mean Sea Level
Local North: Grid North

CASING DETAILS

No.	TVD	MD	Name	Size
1	2700.00	2718.35	9 5/8" CSG PT	9.625

Plan: Plan #1 (922-18F1CS/1)

Created By: L WINCHELL Date: 9/25/2007

Weatherford Drilling Services
Directional Plan Report

Company:	Anadarko-Kerr-McGee	**Date:** 9/25/2007	**Time:** 15:17:14	**Page:**	1
Field:	UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	**Co-ordinate(NE) Reference:**	Site: NBU 922-18F1CS PAD CDEF		
Site:	NBU 922-18F1CS PAD CDEF	**Vertical (TVD) Reference:**	SITE 4908.0		
Well:	922-18F1CS	**Section (VS) Reference:**	Well (0.00N,0.00E,83.03Azi)		
Wellpath:	1	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Field: UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)

Map System:	Universal Transverse Mercator (USfeet)	**Map Zone:**	UTM Zone 12, North 114W to 108W
Geo Datum:	NAD27 (Clarke 1866)	**Coordinate System:**	Site Centre
Sys Datum:	Mean Sea Level	**Geomagnetic Model:**	bggm2006

Site: NBU 922-18F1CS PAD CDEF

1892' FNL 387' FWL SEC 18T9S-R22E

Site Position:		**Northing:** 14543488.60 ft	**Latitude:**	40 2 16.965	N
From:	Map	**Easting:** 2063494.40 ft	**Longitude:**	109 29 18.651	W
Position Uncertainty:	0.00 ft		**North Reference:**	Grid	
Ground Level:	4893.00 ft		**Grid Convergence:**	0.97 deg	

Well: 922-18F1CS **Slot Name:**

Well Position:	+N/-S	0.00 ft	**Northing:** 14543488.60 ft	**Latitude:**	40 2 16.965	N
	+E/-W	0.00 ft	**Easting:** 2063494.40 ft	**Longitude:**	109 29 18.651	W
Position Uncertainty:		0.00 ft				

Wellpath: 1 **Drilled From:** Surface

Tie-on Depth: 0.00 ft

Current Datum:	SITE	**Height** 4908.00 ft	**Above System Datum:**	Mean Sea Level	
Magnetic Data:	9/21/2007		**Declination:**	11.58	deg
Field Strength:	52769 nT		**Mag Dip Angle:**	66.02	deg

Vertical Section:	**Depth From (TVD)** ft	**+N/-S** ft	**+E/-W** ft	**Direction** deg
	0.00	0.00	0.00	83.03

Plan:	Plan #1	**Date Composed:**	9/21/2007
		Version:	1
Principal:	Yes	**Tied-to:**	From Surface

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	83.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	83.03	300.00	0.00	0.00	0.00	0.00	0.00	83.03	
1100.00	8.00	83.03	1097.40	6.77	55.35	1.00	1.00	0.00	83.03	
2800.00	8.00	83.03	2780.86	35.48	290.19	0.00	0.00	0.00	0.00	
3680.00	30.00	83.03	3607.81	70.03	572.83	2.50	2.50	0.00	0.00	
4656.83	30.00	83.03	4453.77	129.30	1057.64	0.00	0.00	0.00	0.00	
6656.83	0.00	83.03	6363.63	191.40	1565.60	1.50	-1.50	0.00	180.00	
10143.20	0.00	83.03	9850.00	191.40	1565.60	0.00	0.00	0.00	0.00	PBHL

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
0.00	0.00	83.03	0.00	0.00	0.00	0.00	0.00	14543488.60	2063494.40	
100.00	0.00	83.03	100.00	0.00	0.00	0.00	0.00	14543488.60	2063494.40	
200.00	0.00	83.03	200.00	0.00	0.00	0.00	0.00	14543488.60	2063494.40	
300.00	0.00	83.03	300.00	0.00	0.00	0.00	0.00	14543488.60	2063494.40	BEGIN NUDGE
400.00	1.00	83.03	399.99	0.11	0.87	0.87	1.00	14543488.71	2063495.27	
500.00	2.00	83.03	499.96	0.42	3.46	3.49	1.00	14543489.02	2063497.86	
600.00	3.00	83.03	599.86	0.95	7.79	7.85	1.00	14543489.55	2063502.19	
700.00	4.00	83.03	699.68	1.69	13.85	13.96	1.00	14543490.29	2063508.25	
800.00	5.00	83.03	799.37	2.65	21.64	21.80	1.00	14543491.25	2063516.04	
900.00	6.00	83.03	898.90	3.81	31.16	31.39	1.00	14543492.41	2063525.56	
1000.00	7.00	83.03	998.26	5.18	42.39	42.71	1.00	14543493.78	2063536.79	
1100.00	8.00	83.03	1097.40	6.77	55.35	55.76	1.00	14543495.37	2063549.75	HOLD
1200.00	8.00	83.03	1196.43	8.46	69.16	69.68	0.00	14543497.06	2063563.56	
1300.00	8.00	83.03	1295.46	10.14	82.98	83.59	0.00	14543498.74	2063577.38	

Weatherford Drilling Services
Directional Plan Report

Company:	Anadarko-Kerr-McGee	**Date:** 9/25/2007	**Time:** 15:17:14	**Page:**	2
Field:	UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	**Co-ordinate(NE) Reference:**	Site: NBU 922-18F1CS PAD CDEF		
Site:	NBU 922-18F1CS PAD CDEF	**Vertical (TVD) Reference:**	SITE 4908.0		
Well:	922-18F1CS	**Section (VS) Reference:**	Well (0.00N,0.00E,83.03Azi)		
Wellpath:	1	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
1400.00	8.00	83.03	1394.48	11.83	96.79	97.51	0.00	14543500.43	2063591.19	
1500.00	8.00	83.03	1493.51	13.52	110.61	111.43	0.00	14543502.12	2063605.01	
1600.00	8.00	83.03	1592.54	15.21	124.42	125.35	0.00	14543503.81	2063618.82	
1700.00	8.00	83.03	1691.56	16.90	138.23	139.26	0.00	14543505.50	2063632.63	
1800.00	8.00	83.03	1790.59	18.59	152.05	153.18	0.00	14543507.19	2063646.45	
1900.00	8.00	83.03	1889.62	20.28	165.86	167.10	0.00	14543508.88	2063660.26	
2000.00	8.00	83.03	1988.64	21.97	179.68	181.02	0.00	14543510.57	2063674.08	
2100.00	8.00	83.03	2087.67	23.66	193.49	194.93	0.00	14543512.26	2063687.89	
2200.00	8.00	83.03	2186.70	25.34	207.31	208.85	0.00	14543513.94	2063701.71	
2300.00	8.00	83.03	2285.72	27.03	221.12	222.77	0.00	14543515.63	2063715.52	
2400.00	8.00	83.03	2384.75	28.72	234.94	236.68	0.00	14543517.32	2063729.34	
2500.00	8.00	83.03	2483.78	30.41	248.75	250.60	0.00	14543519.01	2063743.15	
2600.00	8.00	83.03	2582.81	32.10	262.56	264.52	0.00	14543520.70	2063756.96	
2700.00	8.00	83.03	2681.83	33.79	276.38	278.44	0.00	14543522.39	2063770.78	
2718.35	8.00	83.03	2700.00	34.10	278.91	280.99	0.00	14543522.70	2063773.31	9 5/8" CSG PT
2800.00	8.00	83.03	2780.86	35.48	290.19	292.35	0.00	14543524.08	2063784.59	KOP
2900.00	10.50	83.03	2879.55	37.43	306.15	308.43	2.50	14543526.03	2063800.55	
3000.00	13.00	83.03	2977.45	39.90	326.36	328.79	2.50	14543528.50	2063820.76	
3100.00	15.50	83.03	3074.36	42.89	350.79	353.40	2.50	14543531.49	2063845.19	
3200.00	18.00	83.03	3170.11	46.38	379.40	382.22	2.50	14543534.98	2063873.80	
3300.00	20.50	83.03	3264.51	50.38	412.12	415.19	2.50	14543538.98	2063906.52	
3400.00	23.00	83.03	3357.39	54.88	448.90	452.24	2.50	14543543.48	2063943.30	
3500.00	25.50	83.03	3448.56	59.86	489.66	493.31	2.50	14543548.46	2063984.06	
3600.00	28.00	83.03	3537.85	65.32	534.34	538.31	2.50	14543553.92	2064028.74	
3680.00	30.00	83.03	3607.81	70.03	572.83	577.10	2.50	14543558.63	2064067.23	HOLD
3700.00	30.00	83.03	3625.13	71.24	582.76	587.10	0.00	14543559.84	2064077.16	
3800.00	30.00	83.03	3711.74	77.31	632.39	637.10	0.00	14543565.91	2064126.79	
3900.00	30.00	83.03	3798.34	83.38	682.02	687.10	0.00	14543571.98	2064176.42	
4000.00	30.00	83.03	3884.94	89.45	731.65	737.10	0.00	14543578.05	2064226.05	
4100.00	30.00	83.03	3971.54	95.51	781.28	787.10	0.00	14543584.11	2064275.68	
4200.00	30.00	83.03	4058.15	101.58	830.91	837.10	0.00	14543590.18	2064325.31	
4300.00	30.00	83.03	4144.75	107.65	880.54	887.10	0.00	14543596.25	2064374.94	
4400.00	30.00	83.03	4231.35	113.72	930.17	937.10	0.00	14543602.32	2064424.57	
4500.00	30.00	83.03	4317.95	119.78	979.80	987.10	0.00	14543608.38	2064474.20	
4600.00	30.00	83.03	4404.56	125.85	1029.43	1037.10	0.00	14543614.45	2064523.83	
4656.83	30.00	83.03	4453.77	129.30	1057.64	1065.51	0.00	14543617.90	2064552.04	DROP
4700.00	29.35	83.03	4491.28	131.89	1078.85	1086.89	1.50	14543620.49	2064573.25	
4800.00	27.85	83.03	4579.07	137.70	1126.37	1134.76	1.50	14543626.30	2064620.77	
4900.00	26.35	83.03	4668.09	143.23	1171.59	1180.31	1.50	14543631.83	2064665.99	
5000.00	24.85	83.03	4758.27	148.47	1214.48	1223.53	1.50	14543637.07	2064708.88	
5100.00	23.35	83.03	4849.55	153.43	1255.02	1264.36	1.50	14543642.03	2064749.42	
5200.00	21.85	83.03	4941.87	158.09	1293.17	1302.79	1.50	14543646.69	2064787.57	
5300.00	20.35	83.03	5035.16	162.46	1328.90	1338.80	1.50	14543651.06	2064823.30	
5327.53	19.94	83.03	5061.00	163.61	1338.31	1348.28	1.50	14543652.21	2064832.71	WASATCH
5400.00	18.85	83.03	5129.36	166.53	1362.20	1372.34	1.50	14543655.13	2064856.60	
5500.00	17.35	83.03	5224.41	170.30	1393.04	1403.41	1.50	14543658.90	2064887.44	
5600.00	15.85	83.03	5320.23	173.77	1421.40	1431.99	1.50	14543662.37	2064915.80	
5700.00	14.35	83.03	5416.78	176.93	1447.27	1458.04	1.50	14543665.53	2064941.67	
5800.00	12.85	83.03	5513.97	179.79	1470.61	1481.56	1.50	14543668.39	2064965.01	
5848.17	12.13	83.03	5561.00	181.05	1480.95	1491.98	1.50	14543669.65	2064975.35	ENTER TARGET
5900.00	11.35	83.03	5611.74	182.33	1491.42	1502.52	1.50	14543670.93	2064985.82	
6000.00	9.85	83.03	5710.03	184.56	1509.68	1520.92	1.50	14543673.16	2065004.08	

Weatherford Drilling Services
Directional Plan Report

Company:	Anadarko-Kerr-McGee	**Date:** 9/25/2007	**Time:** 15:17:14	**Page:**	3
Field:	UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	**Co-ordinate(NE) Reference:**	Site: NBU 922-18F1CS PAD CDEF		
Site:	NBU 922-18F1CS PAD CDEF	**Vertical (TVD) Reference:**	SITE 4908.0		
Well:	922-18F1CS	**Section (VS) Reference:**	Well (0.00N,0.00E,83.03Azi)		
Wellpath:	1	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
6100.00	8.35	83.03	5808.77	186.48	1525.38	1536.74	1.50	14543675.08	2065019.78	
6200.00	6.85	83.03	5907.89	188.09	1538.52	1549.97	1.50	14543676.69	2065032.92	
6300.00	5.35	83.03	6007.32	189.38	1549.07	1560.60	1.50	14543677.98	2065043.47	
6400.00	3.85	83.03	6107.00	190.35	1557.03	1568.63	1.50	14543678.95	2065051.43	
6500.00	2.35	83.03	6206.85	191.01	1562.40	1574.04	1.50	14543679.61	2065056.80	
6600.00	0.85	83.03	6306.80	191.35	1565.18	1576.83	1.50	14543679.95	2065059.58	
6656.83	0.00	83.03	6363.63	191.40	1565.60	1577.26	1.50	14543680.00	2065060.00	HOLD
6700.00	0.00	83.03	6406.80	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	
6800.00	0.00	83.03	6506.80	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	
6900.00	0.00	83.03	6606.80	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	
7000.00	0.00	83.03	6706.80	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	
7100.00	0.00	83.03	6806.80	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	
7200.00	0.00	83.03	6906.80	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	
7300.00	0.00	83.03	7006.80	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	
7400.00	0.00	83.03	7106.80	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	
7500.00	0.00	83.03	7206.80	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	
7600.00	0.00	83.03	7306.80	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	
7700.00	0.00	83.03	7406.80	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	
7800.00	0.00	83.03	7506.80	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	
7900.00	0.00	83.03	7606.80	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	
8000.00	0.00	83.03	7706.80	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	
8065.20	0.00	83.03	7772.00	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	MESAVERDE
8100.00	0.00	83.03	7806.80	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	
8200.00	0.00	83.03	7906.80	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	
8300.00	0.00	83.03	8006.80	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	
8400.00	0.00	83.03	8106.80	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	
8500.00	0.00	83.03	8206.80	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	
8600.00	0.00	83.03	8306.80	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	
8700.00	0.00	83.03	8406.80	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	
8800.00	0.00	83.03	8506.80	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	
8900.00	0.00	83.03	8606.80	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	
9000.00	0.00	83.03	8706.80	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	
9100.00	0.00	83.03	8806.80	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	
9200.00	0.00	83.03	8906.80	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	
9300.00	0.00	83.03	9006.80	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	
9400.00	0.00	83.03	9106.80	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	
9500.00	0.00	83.03	9206.80	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	
9600.00	0.00	83.03	9306.80	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	
9700.00	0.00	83.03	9406.80	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	
9800.00	0.00	83.03	9506.80	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	
9900.00	0.00	83.03	9606.80	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	
10000.00	0.00	83.03	9706.80	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	
10100.00	0.00	83.03	9806.80	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	
10143.20	0.00	83.03	9850.00	191.40	1565.60	1577.26	0.00	14543680.00	2065060.00	PBHL

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<---- Latitude ----> Deg Min Sec	<--- Longitude ---> Deg Min Sec
PBHL -Circle (Radius: 100) -Plan hit target			9850.00	191.40	1565.60	14543680.00	2065060.00	40 2 18.594 N	109 28 58.480 W

Weatherford Drilling Services
Directional Plan Report

Company:	Anadarko-Kerr-McGee	**Date:** 9/25/2007	**Time:** 15:17:14	**Page:**	4
Field:	UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	**Co-ordinate(NE) Reference:**	Site: NBU 922-18F1CS PAD CDEF		
Site:	NBU 922-18F1CS PAD CDEF	**Vertical (TVD) Reference:**	SITE 4908.0		
Well:	922-18F1CS	**Section (VS) Reference:**	Well (0.00N,0.00E,83.03Azi)		
Wellpath:	1	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
2718.35	2700.00	9.625	9.625	9 5/8" CSG PT

Annotation

MD ft	TVD ft	
300.00	300.00	BEGIN NUDGE
1100.00	1097.40	HOLD
2800.00	2780.86	KOP
3680.00	3607.81	HOLD
4656.83	4453.77	DROP
5848.17	5561.00	ENTER TARGET
6656.83	6363.63	HOLD
10143.20	9850.00	PBHL

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
5327.53	5061.00	WASATCH		0.00	0.00
8065.20	7772.00	MESAVERDE		0.00	0.00

NBU 922-18F1CS
SW/NW LOT 2, SEC. 18, T9S, R22E
UINTAH COUNTY, UTAH
UTU-0359

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. **Existing Roads:**

Refer to the attached location directions.

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

2. **Planned Access Roads:**

Please see the Natural Buttes Unit Standard Operating Procedure (SOP).

Approximately 170' +/- of access road is proposed. Please refer to the attached Topo Map B.

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

Please refer to Topo Map C.

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

Please see the Natural Buttes Unit SOP.

Approximately 20'' +/- of 10" steel pipeline is proposed from the location to an existing pipeline. Refer to the attached Topo Map D.

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The requested color is Carlsbad Canyon Brown (2.5Y 6/2), a non-reflective earthtone.

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

Please see the Natural Buttes SOP.

6. **Source of Construction Materials:**

Please see the Natural Buttes SOP.

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

Please see the Natural Buttes SOP.

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, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E *(Request is in lieu of filing Form 3160-5, after initial production).*

8. **Ancillary Facilities:**

Please see the Natural Buttes SOP.

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

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

Culverts will be installed where needed.

A run off diversion for drainage will be constructed where needed.

The reserve pit will be lined. When the reserve pit is closed the pit liner will be buried below plow depth.

Location size may change prior to the drilling of the well due to the current rig availability. If the proposed location is not large enough to accommodate the drilling rig. The location will be re-surveyed and a form 3160-5 will be submitted.

10. **Plans for Reclamation of the Surface:**

Please see the Natural Buttes SOP.

11. **Surface Ownership:**

The well pad and access road are located on lands owned by:

Ute Indian Tribe
P.O. Box 70
Fort Duchesne, Utah 84026
(435) 722-5141

12. **Other Information:**

A Class III Archaeological Survey Report has been conducted for this location and submitted to the Ute Indian Tribe prior to the on-site inspection.

This location is not within 460' from the boundary of the Natural Buttes Unit, nor is it within 460' of any non-committed tract lying within boundaries of the unit.

13. **Lessee's or Operator's Representative & Certification:**

Sheila Ucphego
Senior Land Admin Specialist
Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East
Vernal, UT 84078
(435) 781-7024

Randy Bayne
Drilling Manager
Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East
Vernal, UT 84078
(435) 781-7018

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.

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 the terms and conditions of the lease for the operations conducted upon leased lands.

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.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Indian Affairs Nationwide Bond #RLB0005239, Bureau of Land Management Nationwide Bold #WYB000291 and State of Utah Bond #RLB0005237.

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 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 by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Sheila Upchego

11/5/2007
Date

Kerr-McGee Oil & Gas Onshore LP
NBU #922-18C4CS, F1BS, F1CS, C4BS, E2S, D3DS, D3BS, & D2S
SECTION 18, T9S, 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 0.3 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 12.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 1.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 1.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN RIGHT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN RIGHT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 170' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 48.0 MILES.

orig.

Kerr-McGee Oil & Gas Onshore LP

NBU #922-18C4CS, F1BS, F1CS, C4BS, E2S, D3DS, D3BS, & D2S

LOCATED IN UINTAH COUNTY, UTAH
SECTION 18, T9S, R22E, S.L.B.&M.

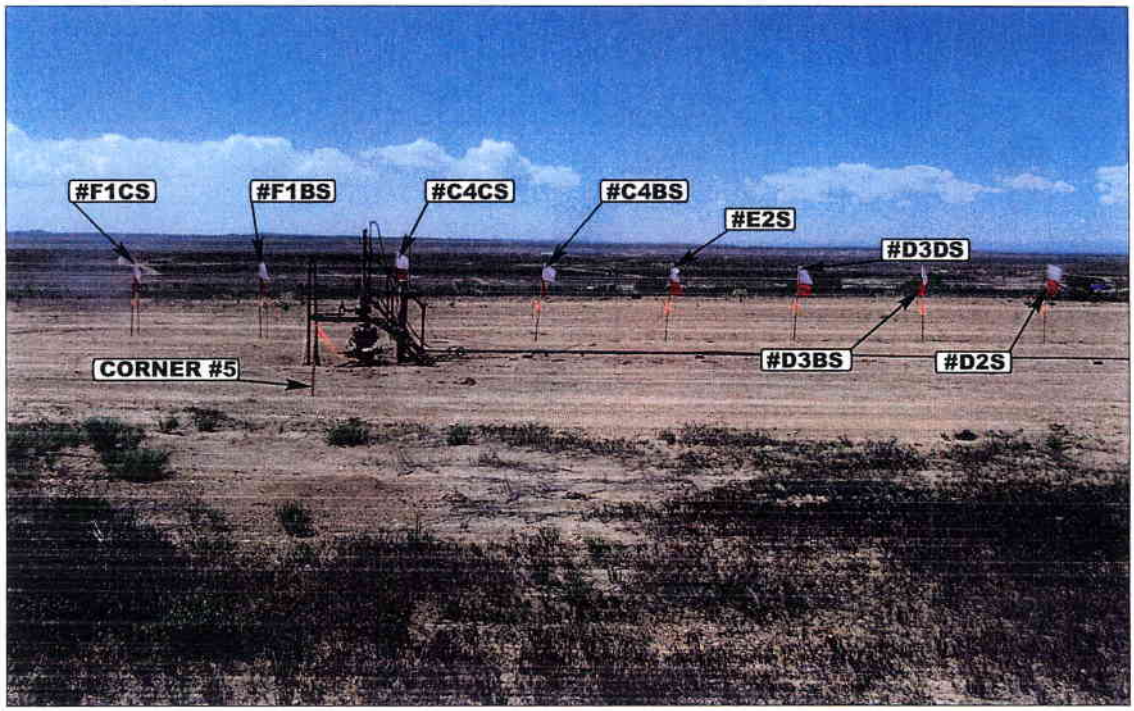


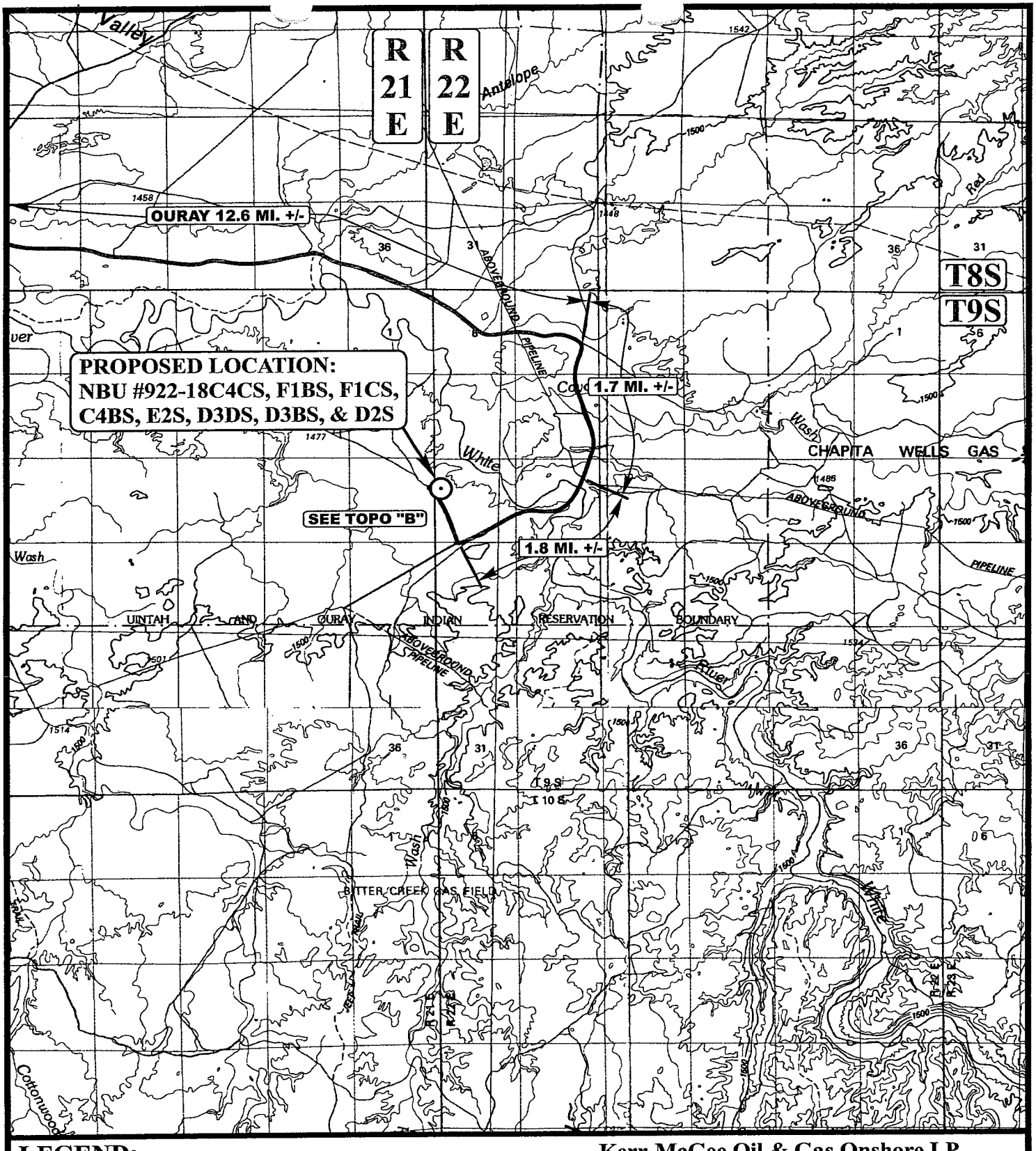
PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKES **CAMERA ANGLE: SOUTHWESTERLY**

PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS **CAMERA ANGLE: EASTERLY**

- Since 1964 -

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS	05 MONTH	16 DAY	07 YEAR	PHOTO
TAKEN BY: L.K.	DRAWN BY: C.P.	REVISED: 00-00-00		



LEGEND:

⊙ PROPOSED LOCATION

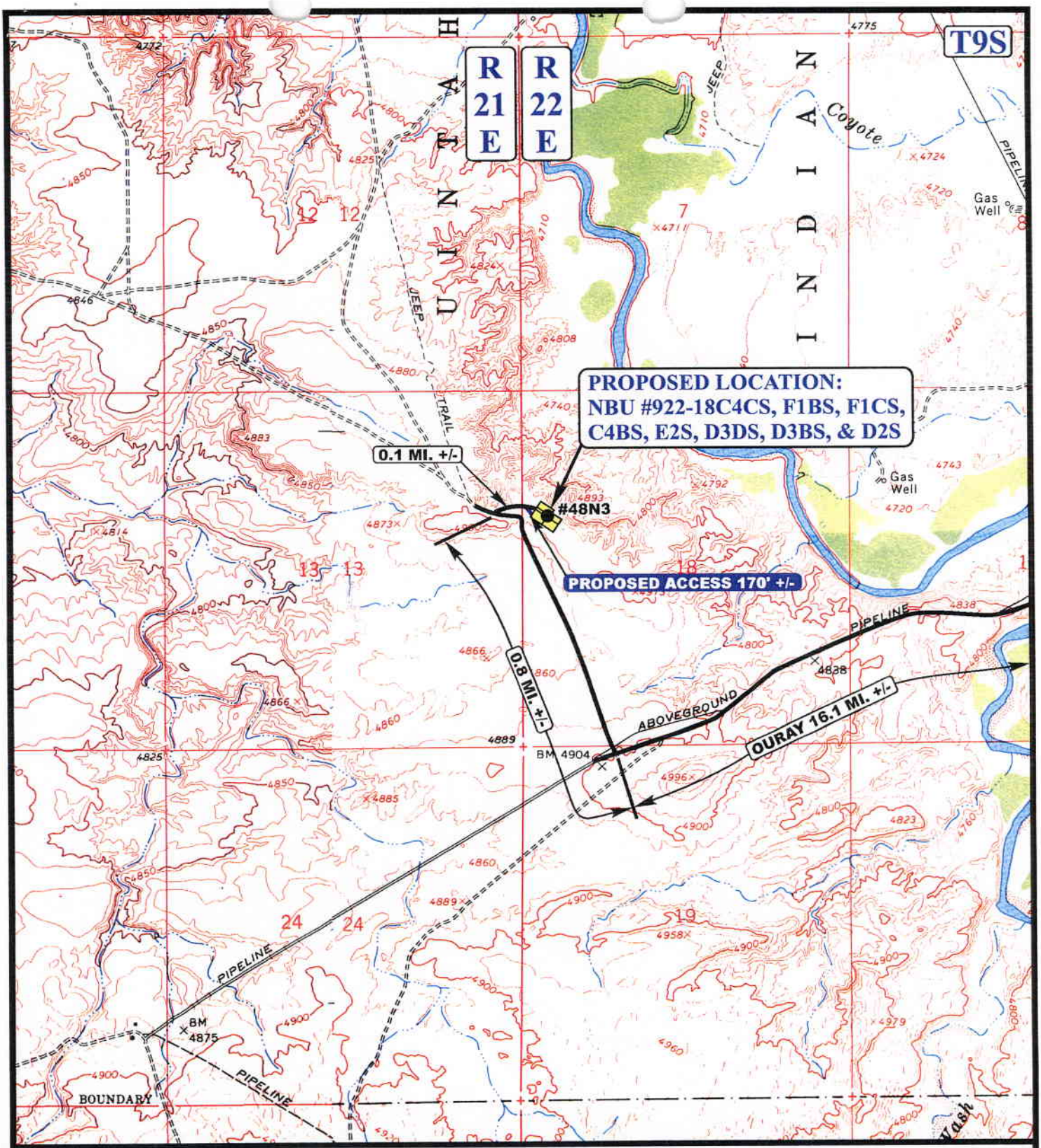
N

Kerr-McGee Oil & Gas Onshore LP

NBU #922-18C4CS, F1BS, F1CS, C4BS, E2S, D3DS, D3BS, &D2S
SECTION 18, T9S, R22E, S.L.B.&M.
LOT 2

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

TOPOGRAPHIC MAP	05 MONTH	16 DAY	07 YEAR	A TOPO
SCALE: 1:100,000	DRAWN BY: C.P.	REVISED: 00-00-00		



LEGEND:

EXISTING ROAD

PROPOSED ACCESS ROAD

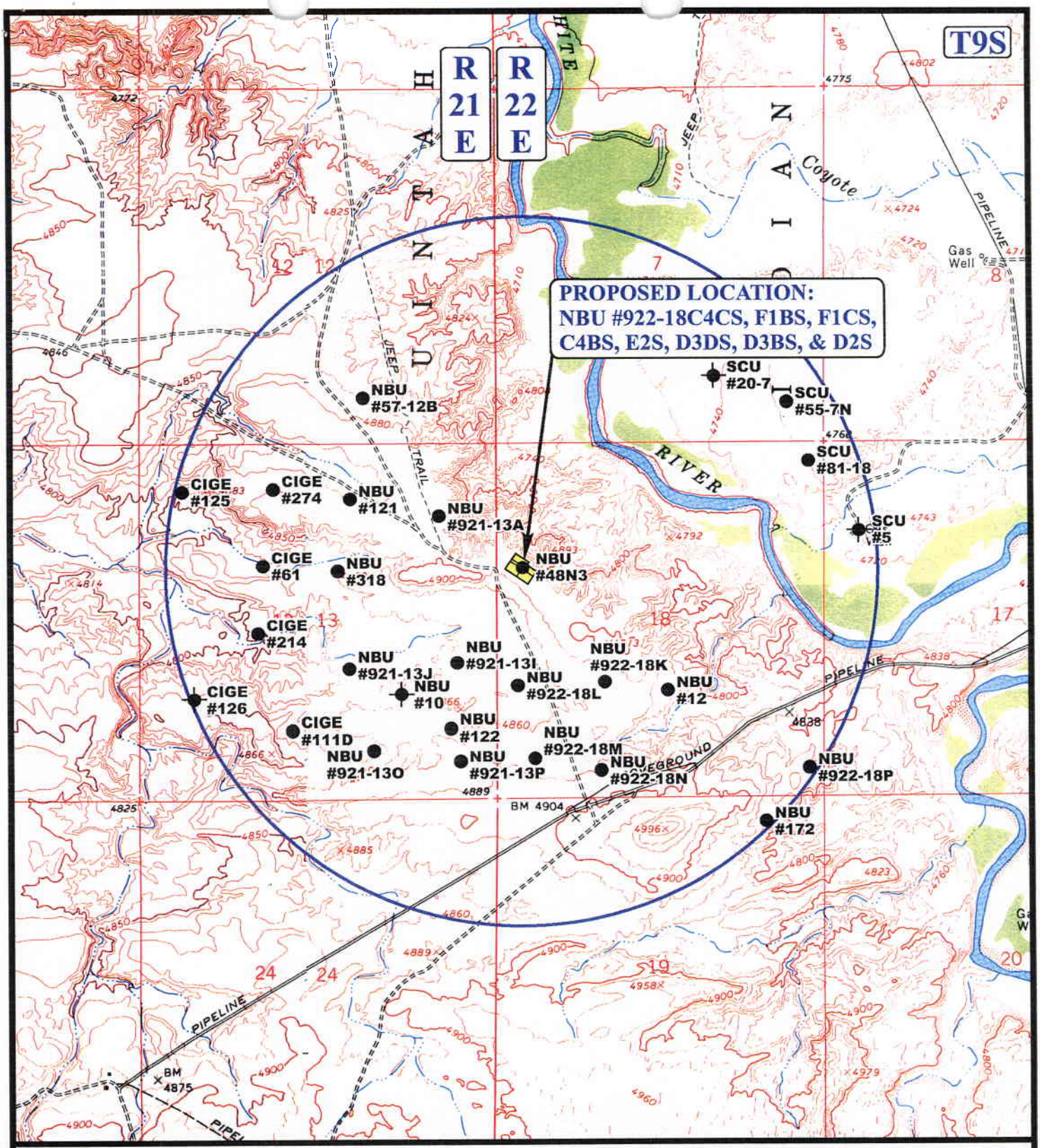
N

Kerr-McGee Oil & Gas Onshore LP

NBU #922-18C4CS, F1BS, F1CS, C4BS, E2S, D3DS, D3BS, &D2S
SECTION 18, T9S, R22E, S.L.B.&M.
LOT 2

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

TOPOGRAPHIC MAP	05 MONTH	16 DAY	07 YEAR	B TOPO
SCALE: 1" = 2000'	DRAWN BY: C.P.	REVISED: 00-00-00		



LEGEND:

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

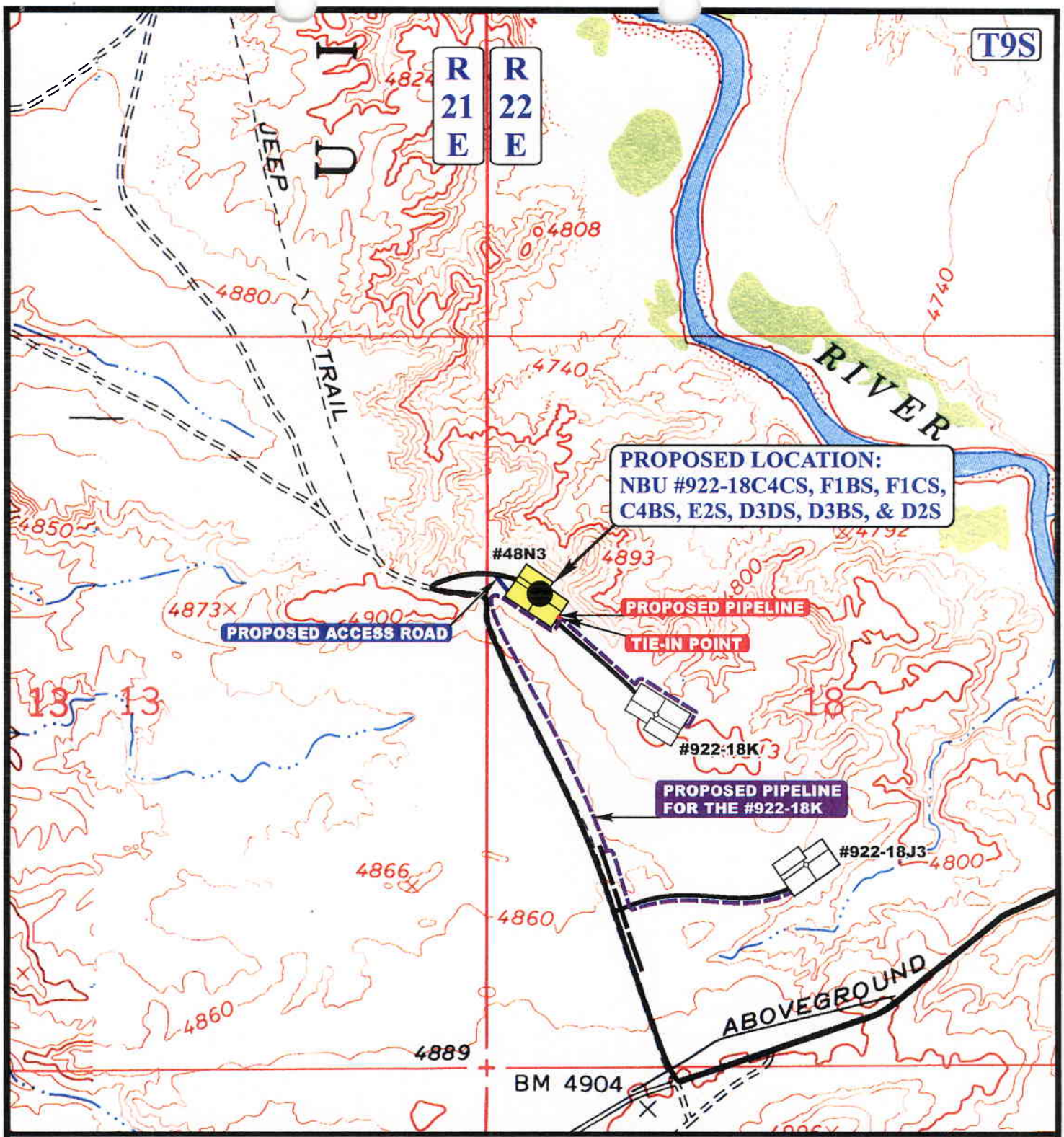
N

Kerr-McGee Oil & Gas Onshore LP

NBU #922-18C4CS, F1BS, F1CS, C4BS, E2S, D3DS, D3BS, &D2S
SECTION 18, T9S, R22E, S.L.B.&M.
LOT 2

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

TOPOGRAPHIC MAP	05 MONTH	16 DAY	07 YEAR	C TOPO
SCALE: 1" = 2000'	DRAWN BY: C.P.	REVISED: 00-00-00		



APPROXIMATE TOTAL PIPELINE DISTANCE = 20' +/-

LEGEND:

PROPOSED ACCESS ROAD
EXISTING PIPELINE
PROPOSED PIPELINE
PROPOSED PIPELINE (SERVICING OTHER WELLS)

N

Kerr-McGee Oil & Gas Onshore LP

NBU #922-18C4CS, F1BS, F1CS, C4BS, E2S, D3DS, D3BS, &D2S
SECTION 18, T9S, R22E, S.L.B.&M.
LOT 2

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

TOPOGRAPHIC MAP	05 MONTH	16 DAY	07 YEAR	D TOPO
SCALE: 1" = 1000'	DRAWN BY: C.P.	REVISED: 10-25-07		

Kerr-McGee Oil & Gas Onshore LP

NBU #922-18C4CS, F1BS, F1CS, C4BS, E2S, D3DS, D3BS, & D2S

PIPELINE ALIGNMENT

LOCATED IN UINTAH COUNTY, UTAH
SECTION 18, T9S, R22E, S.L.B.&M.

PHOTO: VIEW FROM TIE-IN POINT **CAMERA ANGLE: NORTHWESTERLY**

PHOTO: VIEW OF PIPELINE ALIGNMENT **CAMERA ANGLE: NORTHWESTERLY**

- Since 1964 -

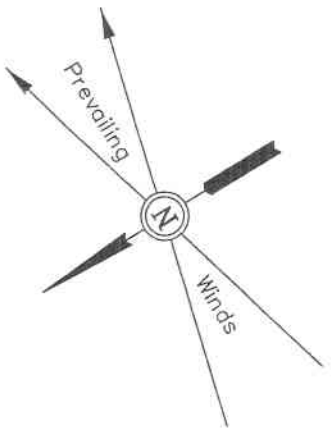
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

PIPELINE PHOTOS	05 MONTH	16 DAY	07 YEAR	PHOTO
TAKEN BY: L.K.	DRAWN BY: C.P.	REVISED: 00-00-00		

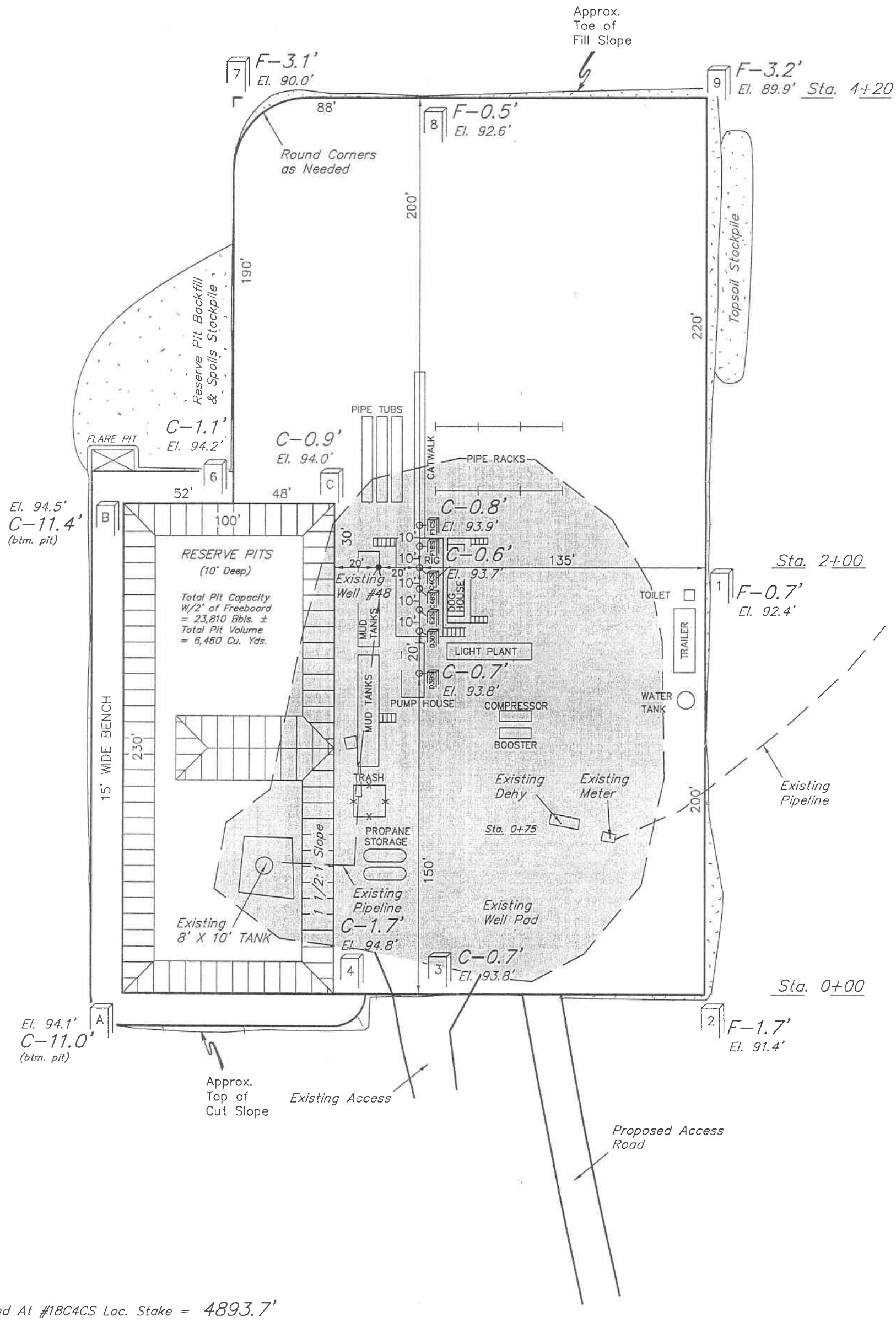
Kerr-McGee Oil & Gas Onshore LP

SITE PLAN LAYOUT FOR

NBU #922-18C4CS, F1BS, F1CS, C4BS, E2S, D3DS, & D3BS
SECTION 18, T9S, R22E, S.L.B.&M.
LOT2



SCALE: 1" = 50'
DATE: 5-18-07
Drawn By: C.H.
REV: 10-22-07



NOTES:

Elev. Ungraded Ground At #18C4CS Loc. Stake = 4893.7'

FINISHED GRADE ELEV. AT #18C4CS LOC. STAKE = 4893.1'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

Kerr-McGee Oil & Gas Onshore LP

TYPICAL CROSS SECTIONS FOR

NBU #922-18C4CS, F1BS, F1CS, C4BS, E2S, D3DS, & D3BS

SECTION 18, T9S, R22E, S.L.B.&M.

LOT2

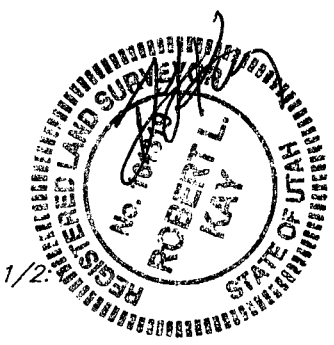
FIGURE #2

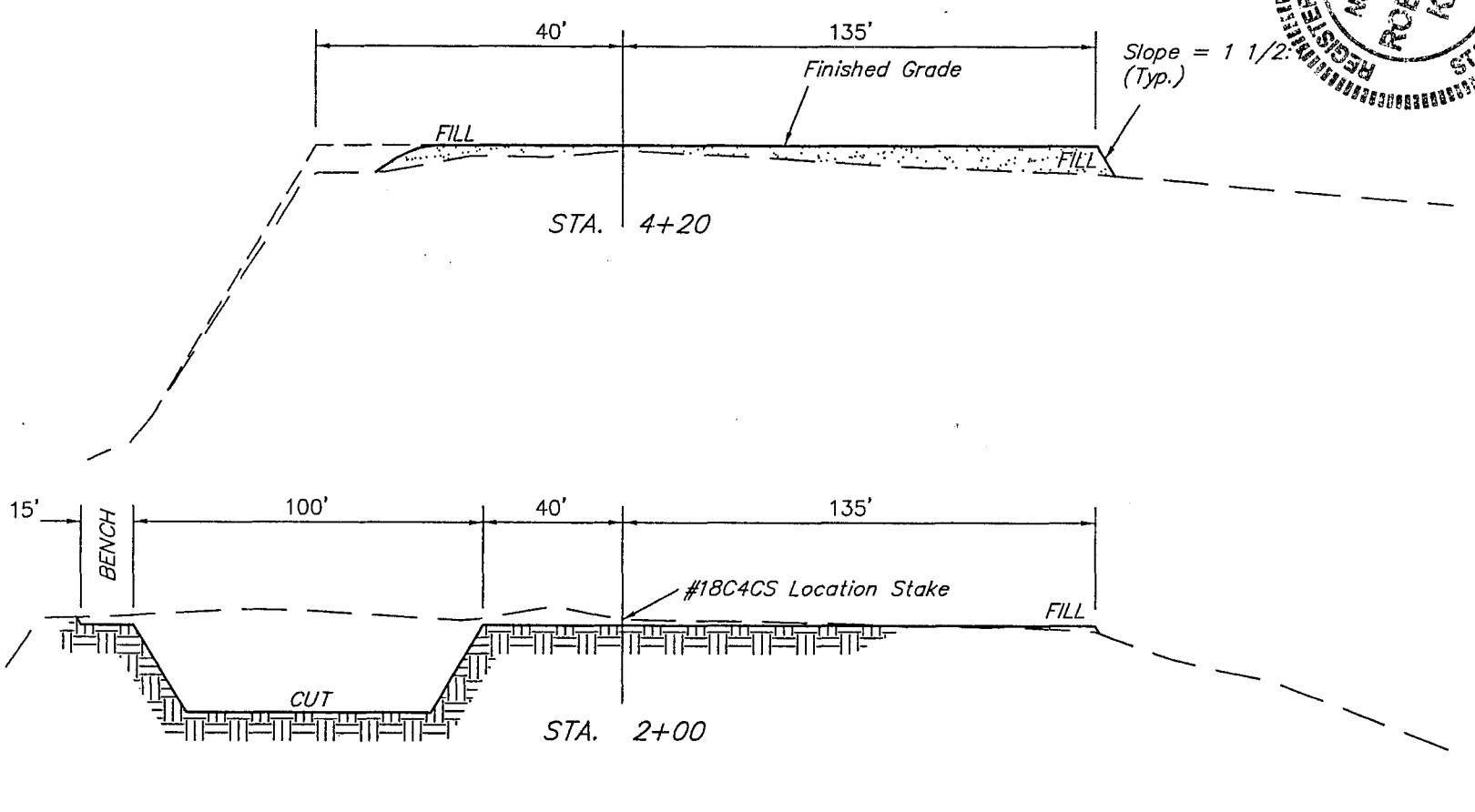
1" = 20'

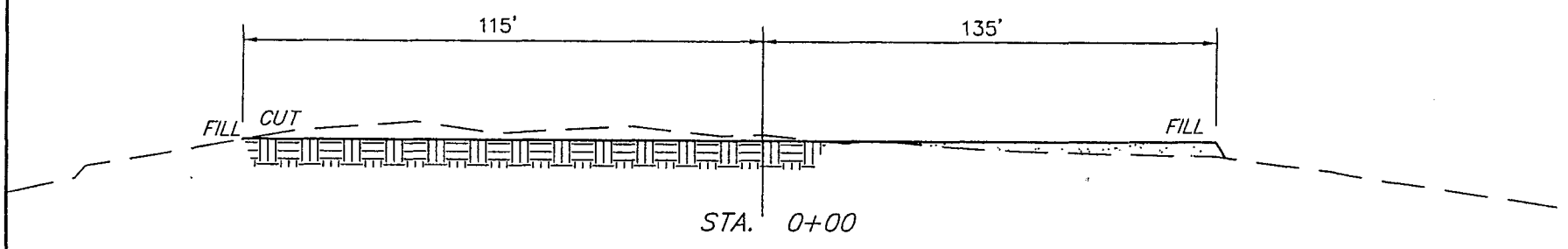
X-Section Scale

1" = 50'

DATE: 5-18-07
Drawn By: C.H.
REV: 10-22-07







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

APPROXIMATE YARDAGES

CUT

(12") Topsoil Stripping = *4,410* Cu. Yds.

Remaining Location = *6,670* Cu. Yds.

TOTAL CUT = *11,080* CU.YDS.

FILL = *3,440* CU.YDS.

* *NOTE:*
FILL QUANTITY INCLUDES 5% FOR COMPACTION

EXCESS MATERIAL = *7,640* Cu. Yds.

Topsoil & Pit Backfill (1/2 Pit Vol.) = *7,640* Cu. Yds.

EXCESS UNBALANCE (After Interim Rehabilitation) = *0* Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
*85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017*

Kerr-McGee Oil & Gas Onshore LP

SITE PLAN LAYOUT FOR

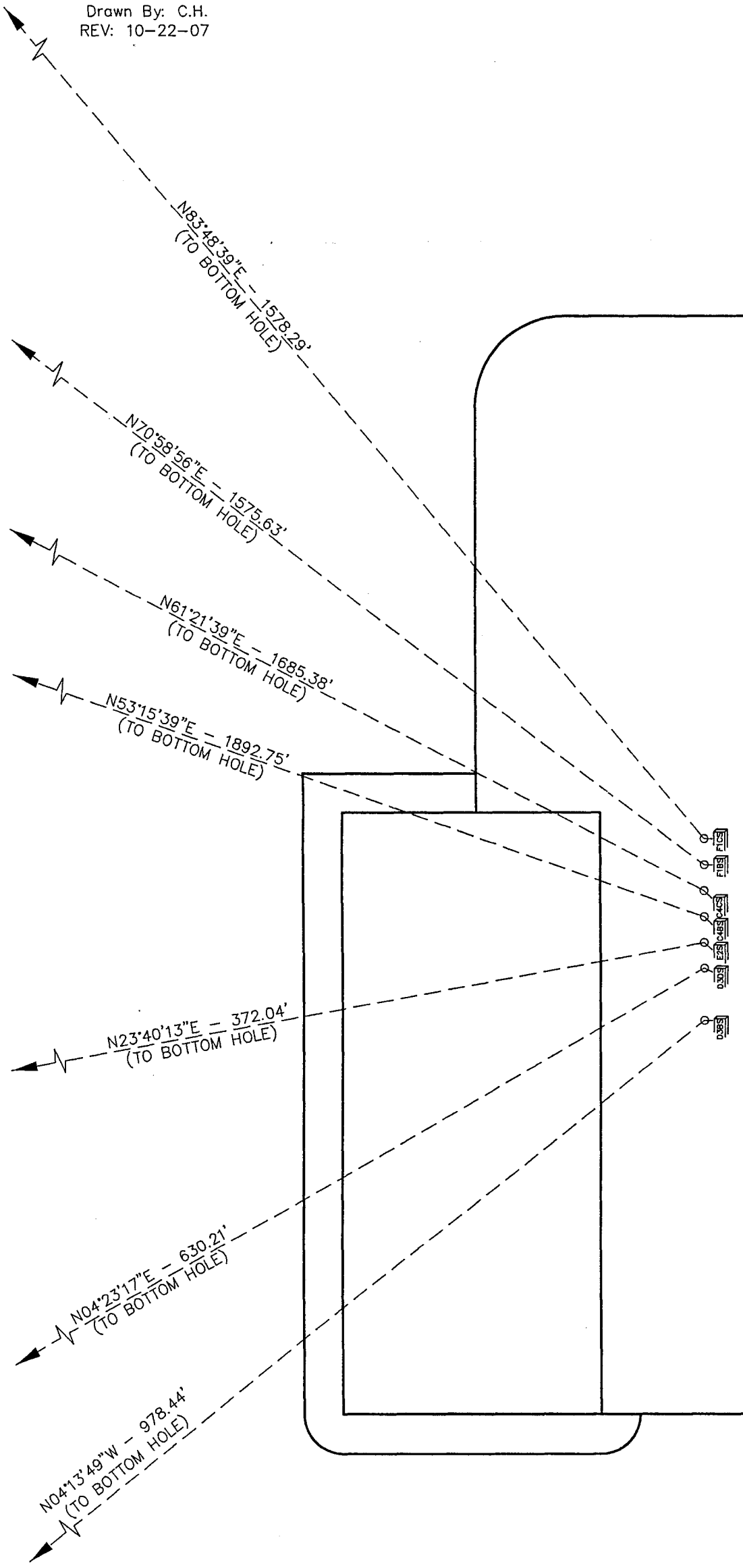
NBU #922-18C4CS, F1BS, F1CS, C4BS, E2S, D3DS, & D3BS

SECTION 18, T9S, R22E, S.L.B.&M.

LOT2

SCALE: 1" = 50'
DATE: 5-18-07
Drawn By: C.H.
REV: 10-22-07

REGISTERED LAND SURVEYOR
161319
ROBERT L. KAY
STATE OF UTAH



UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/20/2007

API NO. ASSIGNED: 43-047-39838

WELL NAME: NBU 922-18F1CS

OPERATOR: KERR-MCGEE OIL & GAS (N2995)

PHONE NUMBER: 435-781-7024

CONTACT: SHEILA UPCHEGO

PROPOSED LOCATION:

SWNW 18 090S 220E

SURFACE: 1892 FNL 0387 FWL

SENW BOTTOM: 1724 FNL 1956 FWL

COUNTY: UINTAH

LATITUDE: 40.03806 LONGITUDE: -109.4885

UTM SURF EASTINGS: 628953 NORTHINGS: 4432865

FIELD NAME: NATURAL BUTTES (630)

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-0359

PROPOSED FORMATION: WSMVD

SURFACE OWNER: 2 - Indian

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

✓ Plat

✓ Bond: Fed[1] Ind[] Sta[] Fee[]
(No. RLB0005239)

N Potash (Y/N)

Y Oil Shale 190-5 (B) or 190-3 or 190-13

✓ Water Permit
(No. 43-8496)

N RDCC Review (Y/N)
(Date:)

N/A Fee Surf Agreement (Y/N)

N/A Intent to Commingle (Y/N)

LOCATION AND SITING:

___ R649-2-3.

Unit: NATURAL BUTTES

___ R649-2-2. General

Siting: 460 From Qtr/Qtr & 920' Between Wells

___ R649-3-3. Exception

✓ Drilling Unit

Board Cause No: 173-14

Eff Date: 12-2-1999

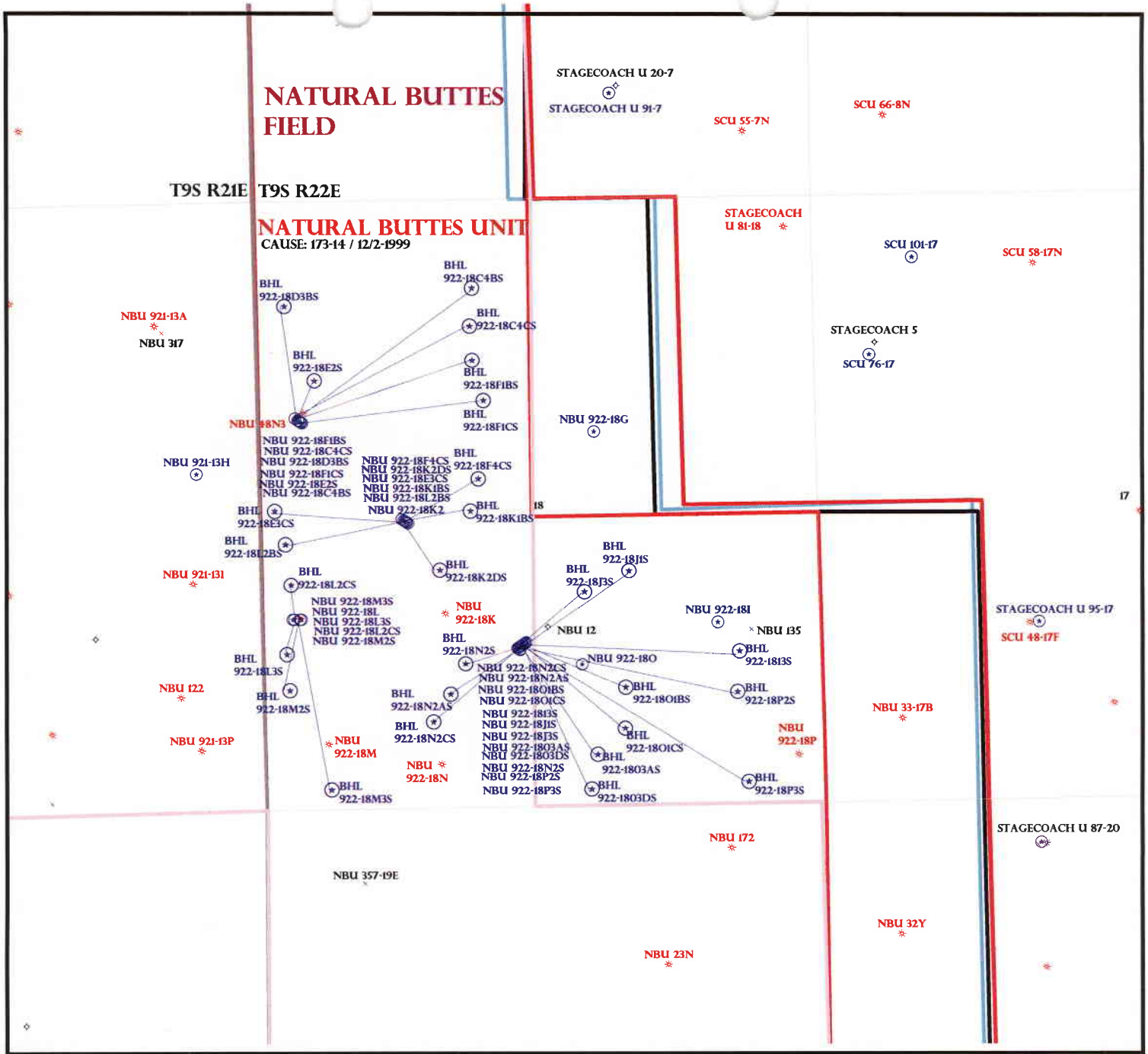
Siting: 460' fr u bdry & 920' unless approved

✓ R649-3-11. Directional Drill

COMMENTS: Sop, Separate file

STIPULATIONS: 1- Federal Approval

2- OIL SHALE



OPERATOR: KERR MCGEE O&G (N2995)

SEC: 18 T.9S R. 22E

FIELD: NATURAL BUTTES (630)

COUNTY: UINTAH

CAUSE: 173-14 / 12/2-1999

Field Status
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

Unit Status
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Wells Status
- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING

UTAH DNR
OIL, GAS & MINING

N
W E
S

PREPARED BY: DIANA MASON
DATE: 29-NOVEMBER-2007

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)

November 30, 2007

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2007 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 2007 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ Wasatch/MesaVerde)		
43-047-39821	NBU 922-18F4CS	Sec 18 T09S R22E 2529 FSL 1248 FWL BHL Sec 18 T09S R22E 2406 FNL 1895 FWL
43-047-39822	NBU 922-18K2DS	Sec 18 T09S R22E 2508 FSL 1282 FWL BHL Sec 18 T09S R22E 2099 FSL 1548 FWL
43-047-39823	NBU 922-18E3CS	Sec 18 T09S R22E 2540 FSL 1231 FWL BHL Sec 18 T09S R22E 2632 FSL 0136 FWL
43-047-39824	NBU 922-18K1BS	Sec 18 T09S R22E 2524 FSL 1256 FWL BHL Sec 18 T09S R22E 2602 FSL 1821 FWL
43-047-39825	NBU 922-18M3S	Sec 18 T09S R22E 1688 FSL 0334 FWL BHL Sec 18 T09S R22E 0203 FSL 0571 FWL
43-047-39826	NBU 922-18L3S	Sec 18 T09S R22E 1689 FSL 0274 FWL BHL Sec 18 T09S R22E 1390 FSL 0214 FWL
43-047-39827	NBU 922-18L2CS	Sec 18 T09S R22E 1687 FSL 0344 FWL BHL Sec 18 T09S R22E 1994 FSL 0262 FWL

43-047-39828 NBU 922-18M2S Sec 18 T09S R22E 1689 FSL 0284 FWL
BHL Sec 18 T09S R22E 1075 FSL 0232 FWL

43-047-39829 NBU 922-18P3S Sec 18 T09S R22E 1424 FSL 2605 FEL
BHL Sec 18 T09S R22E 0203 FSL 0668 FEL

43-047-39830 NBU 922-18P2S Sec 18 T09S R22E 1436 FSL 2588 FEL
BHL Sec 18 T09S R22E 0988 FSL 0745 FEL

43-047-39831 NBU 922-18N2S Sec 18 T09S R22E 1402 FSL 2637 FEL
BHL Sec 18 T09S R22E 1278 FSL 1753 FWL

43-047-39832 NBU 922-18O3DS Sec 18 T09S R22E 1407 FSL 2629 FEL
BHL Sec 18 T09S R22E 0165 FSL 2024 FEL

43-047-39833 NBU 922-18O3AS Sec 18 T09S R22E 1413 FSL 2621 FEL
BHL Sec 18 T09S R22E 0465 FSL 1965 FEL

43-047-39834 NBU 922-18O1CS Sec 18 T09S R22E 1419 FSL 2613 FEL
BHL Sec 18 T09S R22E 0687 FSL 1723 FEL

43-047-39835 NBU 922-18O1BS Sec 18 T09S R22E 1430 FSL 2596 FEL
BHL Sec 18 T09S R22E 1046 FSL 1714 FEL

43-047-39836 NBU 922-18C4BS Sec 18 T09S R22E 1875 FNL 0362 FWL
BHL Sec 18 T09S R22E 0745 FNL 1878 FWL

43-047-39837 NBU 922-18E2S Sec 18 T09S R22E 1870 FNL 0354 FWL
BHL Sec 18 T09S R22E 1529 FNL 0503 FWL

43-047-39838 NBU 922-18F1CS Sec 18 T09S R22E 1892 FNL 0387 FWL
BHL Sec 18 T09S R22E 1724 FNL 1956 FWL

43-047-39839 NBU 922-18N2AS Sec 18 T09S R22E 1396 FSL 2228 FWL
BHL Sec 18 T09S R22E 1016 FSL 1617 FWL

43-047-39840 NBU 922-18L2BS Sec 18 T09S R22E 2513 FSL 1273 FWL
BHL Sec 18 T09S R22E 2344 FSL 0223 FWL

43-047-39841 NBU 922-18D3BS Sec 18 T09S R22E 1853 FNL 0329 FWL
BHL Sec 18 T09S R22E 0877 FNL 0256 FWL

43-047-39842 NBU 922-18J3S Sec 18 T09S R22E 1453 FSL 2564 FEL
BHL Sec 18 T09S R22E 1888 FSL 2052 FEL

43-047-39843 NBU 922-18J1S Sec 18 T09S R22E 1447 FSL 2572 FEL
BHL Sec 18 T09S R22E 2062 FSL 1665 FEL

43-047-39844 NBU 922-18I3S Sec 18 T09S R022E 1442 FSL 2580 FEL
BHL Sec 18 T09S R022E 1346 FSL 0726 FEL

43-047-39845 NBU 922-18C4CS Sec 18 T09S R22E 1881 FNL 0370 FWL
BHL Sec 18 T09S R22E 1075 FNL 1849 FWL

43-047-39846 NBU 922-18F1BS Sec 18 T09S R22E 1886 FNL 0379 FWL
BHL Sec 18 T09S R22E 1375 FNL 1868 FWL

43-047-39847 NBU 922-18N2CS Sec 18 T09S R22E 1390 FSL 2220 FWL
BHL Sec 18 T09S R22E 0775 FSL 1462 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:11-30-07

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

December 3, 2007

Kerr McKee Oil and Gas Onshore LP
1368 South 1200 East
Vernal, UT 84078

Re: NBU 922-18F1CS Well, Surface Location 1892' FNL, 387' FWL, SW NW, Sec. 18, T. 9 South, R. 22 East, Bottom Location 1724' FNL, 1956' FWL, SE NW, Sec. 18, T. 9 South, R. 22 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

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. The API identification number assigned to this well is 43-047-39838.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Uintah County Assessor
Bureau of Land Management, Vernal Office

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • *www.ogm.utah.gov*

UTAH DNR OIL, GAS & MINING

Operator: Kerr McKee Oil and Gas Onshore LP

Well Name & Number NBU 922-18F1CS

API Number: 43-047-39838

Lease: UTU-0359

Surface Location: SW NW **Sec.** 18 **T.** 9 South **R.** 22 East

Bottom Location: SE NW **Sec.** 18 **T.** 9 South **R.** 22 East

Conditions of Approval

1. **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.

2. **Notification Requirements**

   Notify the Division with 24 hours of spudding the well.

   - Contact Carol Daniels at (801) 538-5284.

   Notify the Division prior to commencing operations to plug and abandon the well.

   - Contact Dustin Doucet at (801) 538-5281 office (801) 733-0983 home

3. **Reporting Requirements**

   All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. 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.

6 In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.

RECEIVED

NOV - 7 2007

BLM

Form 3160-3
(August 1999)

FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: [X] DRILL [ ] REENTER	5. Lease Serial No. UTU-0359 461
	6. If Indian, Allottee or Tribe Name TRIBAL SURFACE
	7. If Unit or CA Agreement, Name and No. UNIT #891008900A
b. Type of Well: [ ] Oil Well [X] Gas Well [ ] Other [ ] Single Zone [X] Multiple Zone	8. Lease Name and Well No. NBU 922-18F1CS
2. Name of Operator KERR MCGEE OIL AND GAS ONSHORE LP	9. API Well No. 43 047 39838
3A. Address 1368 SOUTH 1200 EAST VERNAL, UT 84078	3b. Phone No. *(include area code)* (435) 781-7024
	10. Field and Pool, or Exploratory NATURAL BUTTES
4. Location of Well *(Report location clearly and in accordance with any State requirements.*)* At surface SW/NW 1892'FNL, 387'FWL (LOT 2) At proposed prod. Zone SE/NW 1724'FNL, 1956'FWL	11. Sec., T., R., M., or Blk, and Survey or Area SEC. 18, T9S, R22E
14. Distance in miles and direction from nearest town or post office* 17 +/- MILES FROM OURAY, UTAH	12. County or Parish UINTAH / 13. State UTAH

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 387'	16. No. of Acres in lease 162.39	17. Spacing Unit dedicated to this well 40.00
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. REFER TO TOPO C	19. Proposed Depth 10,143'	20. BLM/BIA Bond No. on file RLB0005239
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 4894'GL	22. Approximate date work will start* UPON APPROVAL	23. Estimated duration TO BE DETERMINED

24. Attachments

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

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

25. Signature	Name *(Printed/Typed)* SHEILA UPCHEGO	Date 11/16/2007
Title SENIOR LAND ADMIN SPECIALIST		
Approved by *(Signature)*	Name *(Printed/Typed)* Jerry Kenczka	Date SEP 08 2008
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.

**(Instructions on reverse)*

NOTICE OF APPROVAL

RECEIVED

SEP 16 2008

DIV. OF OIL, GAS & MINING

UDOGM

No NOS
08 MDC0094A

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:**	**LOT 2, Sec. 18, T9S, R22E (S) SENW, Sec. 18, T9S,R22E (B)**
Well No:	**NBU 922-18F1CS**	**Lease No:**	**UTU-0461**
API No:	**43-047-39838**	**Agreement:**	**Natural Buttes Unit**

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
Supervisory NRS:	Karl Wright	(435) 781-4484	(435) 828-7381
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	(435) 828-3544
NRS/Enviro Scientist:	James Hereford	(435) 781-3412	
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Dan Emmett	(435) 781-3414	
NRS/Enviro Scientist:	Paul Percival	(435) 781-4493	
NRS/Enviro Scientist:	Michael Cutler	(435) 781-3401	(435) 828-3546
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Darren Williams	(435) 781-4447	(435) 828-4029
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545
		Fax: (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

Construction Activity	-	The Ute Tribe Energy & Minerals Dept. shall be notified in writing 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion	-	Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion.
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.
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)

Surface COAs:

- 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.

SITE SPECIFIC COAs:

Additional Stipulations:

None

General Conditions of Approval

- A 30' foot corridor right-of-way shall be approved. Upon completion of each pipeline in corridor, they shall be identified and filed with the Ute Tribe.

- A qualified Archaeologist accompanied by a Tribal Technician will monitor trenching construction of pipeline.

- The Ute Tribe Energy & Minerals Department is to be notified, in writing 48 hours prior to construction of pipeline.

- Construction Notice shall be given to the department on the Ute Tribe workdays, which are Monday through Thursday. The Company understands that they may be responsible for costs incurred by the Ute Tribe after hours.

- The Company shall inform contractors to maintain construction of pipelines within the approved ROW's.

- The Company shall assure the Ute Tribe that "ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, LEASING CONTRACTORS, AND ETC." have acquired a current and valid Ute Tribal Business License and have "Access Permits" prior to construction, and will have these permits in all vehicles at all times.

- You are hereby notified that working under the *"umbrella"* of a company does not allow you to be in the field, and can be subject to those fines of the Ute Tribe Severance Tax Ordinance.

- Any deviation of submitted APD's and ROW applications the Companies will notify the Ute Tribe and BIA in writing and will receive written authorization of any such change with appropriate authorization.

- The Company will implement "Safety and Emergency Plan." The Company's safety director will ensure its compliance.

- All Company employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's and/or ROW permits/authorizations on their person(s) during all phases of construction.

- All vehicular traffic, personnel movement, construction/restoration operations shall be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.

- All personnel shall refrain from collecting artifacts, any paleontological fossils, and from disturbing any significant cultural resources in the area.

- The personnel from the Ute Tribe Energy & Minerals Department shall be notified should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.

- All mitigative stipulations contained in the Bureau of Indian Affairs Site Specific Environmental Assessment (EA) will be strictly adhered.

Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy & Minerals Department, so that a Tribal Technician can verify Affidavit of Completion.

DOWNHOLE CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- A surface casing shoe integrity test shall be performed.
- Production casing cement top shall be at a minimum of 200' above the surface casing shoe.

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.
- 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.

- 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 LAS format to UT_VN_Welllogs@BLM.gov. 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.

- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.

- 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.

Form 3160- 5
(August, 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004- 0137
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.

SUBMIT IN TRIPLICATE *- Other Instructions on reverse side.*

5. Lease Serial No.: UTU-0359
6. If Indian, Allottee, or Tribe Name: Ute Tribe
7. If Unit or CA. Agreement Name and/or No.: UTU-63047A
8. Well Name and No.: NBU 922-18F1CS
9. API Well No.: 43-047-39838
10. Field and Pool, or Exploratory Area: Natural Buttes
11. County or Parish, State: Uintah

1. Type of Well: [ ] Oil Well [X] Gas Well [ ] Other
2. Name of Operator: **Kerr-McGee Oil & Gas Onshore, LP**
3a. Address: P.O. Box 173779, Denver, CO 80217-3779
3b. Phone No. *(include area code)*: 720.929.6226
4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*: SW NW Sec. 18 T 9S R 22E 1914 FNL 420 FWL

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

TYPE OF SUBMISSION	TYPE OF ACTION			
[ ] Notice of Intent	[ ] Acidize	[ ] Deepen	[ ] Production (Start/ Resume)	[ ] Water Shut-off
	[ ] Altering Casing	[ ] Fracture Treat	[ ] Reclamation	[ ] Well Integrity
[X] Subsequent Report	[ ] Casing Repair	[ ] New Construction	[ ] Recomplete	[X] Other **Surface Location**
	[ ] Change Plans	[ ] Plug and abandon	[ ] Temporarily Abandon	
[ ] Final Abandonment Notice	[ ] Convert to Injection	[ ] Plug back	[ ] 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 and pertinent markers and sands. Attach the Bond under which the work will performed or provide the Bond No. on file with the 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 Notice shall be filed only after all requirements, including reclamantion, have been completed, and the operator has determined that the site is ready for final inspection.)

COPY SENT TO OPERATOR
Date: 12·4·2008
Initials: KS

Kerr-McGee Oil & Gas Onshore, LP, respectfully notifies that the center stakes for the surface location have been moved to SWNW 1914' FNL & 420' FWL. The bottomhole location has not been changed.

Approved by the
Utah Division of
Oil, Gas and Mining

628964X 40.037996
4432859Y -109.488407

Date: 12-01-08
By:

Federal Approval of this Action is Necessary

14. I hereby certify that the foregoing is true and correct.
Name *(Printed/ Typed)*: Kevin McIntyre
Title: Regulatory Analyst
Signature:
Date: 11/12/08

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by | Title | Date

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. | 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 any department or agency of the United States any false, fictitiousor fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

RECEIVED
NOV 17 2008
DIV. OF OIL, GAS & MINING

Kerr-McGee Oil & Gas Onshore LP

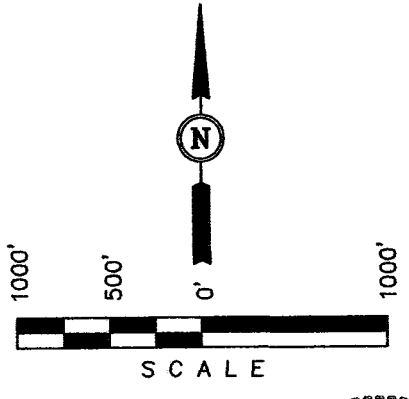
Well location, NBU #922-18F1CS, located as shown in Lot 2 of Section 18, T9S, R22E, S.L.B.&M., Uintah County, Utah.

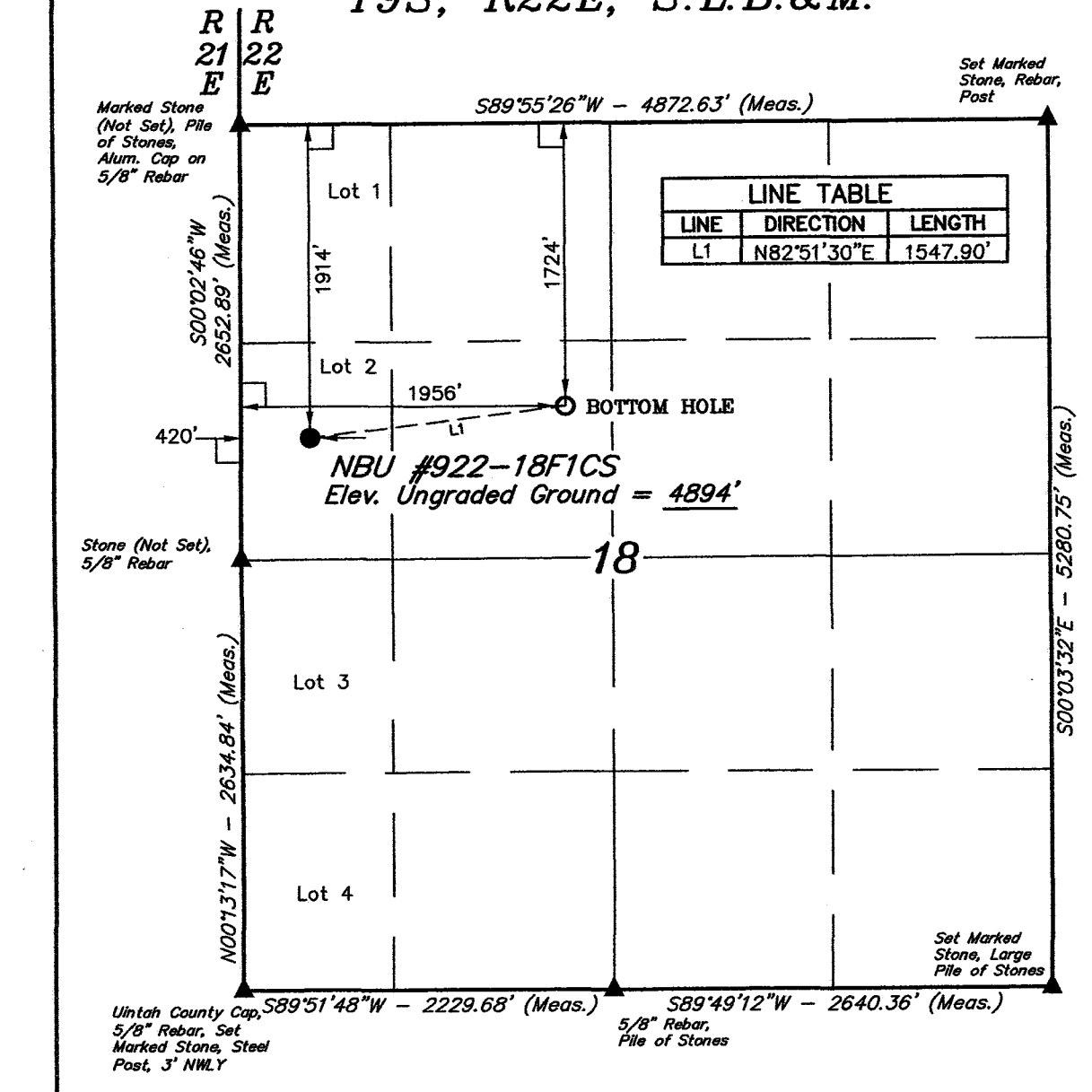
BASIS OF ELEVATION

BENCH MARK (20EAM) LOCATED IN THE SE 1/4 OF SECTION 35, T8S, R21E, S.L.B.&M. TAKEN FROM THE OURAY SE QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4697 FEET.

BASIS OF BEARINGS

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





LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N82°51'30"E	1547.90'

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

REVISED: 10-30-08

LEGEND:

- ∟ = 90° SYMBOL
- ● = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°02'18.67" (40.038519)	LATITUDE = 40°02'16.77" (40.037992)
LONGITUDE = 109°29'01.48" (109.483744)	LONGITUDE = 109°29'21.22" (109.489228)
NAD 27 (TARGET BOTTOM HOLE)	**NAD 27 (SURFACE LOCATION)**
LATITUDE = 40°02'18.80" (40.038556)	LATITUDE = 40°02'16.90" (40.038028)
LONGITUDE = 109°28'59.01" (109.483058)	LONGITUDE = 109°29'18.75" (109.488542)

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

SCALE	DATE SURVEYED:	DATE DRAWN:
	05-07-07	05-17-07
PARTY: D.K. L.K. C.H.	REFERENCES: G.L.O. PLAT	
WEATHER: WARM	FILE: Kerr-McGee Oil & Gas Onshore LP	

KerrMcGee

Kerr-McGee Oil & Gas Onshore LP
1999 Broadway, Suite 3700
Denver, CO 80205

July 30, 2008

Mrs. 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 922-18F1CS
T9S-R22E
Section 18: SENW
Surface: 1914' FNL, 420' FWL
Bottom Hole: 1724' FNL, 1956' FWL
Uintah County, Utah

Dear Mrs. 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 922-18F1CS 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

Jason K. Rayburn
Landman

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-0359
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	Ute Tribe
7. UNIT or CA AGREEMENT NAME:	891008900A
1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER	8. WELL NAME and NUMBER: NBU 922-18F1CS
2. NAME OF OPERATOR: Kerr-McGee Oil & Gas Onshore, LP	9. API NUMBER: 4304739838
3. ADDRESS OF OPERATOR: P.O. Box 173779 CITY Denver STATE CO ZIP 80217-3779 PHONE NUMBER: (720) 929-6226	10. FIELD AND POOL, OR WILDCAT: Natural Buttes Field
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 1914' FNL & 420' FWL	COUNTY: Uintah
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 18 9S 22E	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: APD Extension
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

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

Kerr-McGee Oil & Gas Onshore, LP, respectfully requests a one year extension on this APD in order to complete drilling operations. The Utah Division of Oil, Gas, and Mining initially approved this APD on 12/03/2007.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 12-11-08

By:

NAME (PLEASE PRINT) Kevin McIntyre TITLE Regulatory Analyst

SIGNATURE DATE 12/9/2008

(This space for State use only)

COPY SENT TO OPERATOR
Date: 12.16.2008
Initials: KS

(5/2000) (See Instructions on Reverse Side)

RECEIVED
DEC 11 2008
DIV. OF OIL, GAS & MINING

[redacted]

Application for Permit to Drill
Request for Permit Extension
Validation
(this form should accompany the Sundry Notice requesting permit extension)

API: 4304739838
Well Name: NBU 922-18F1CS
Location: SWNW 1914' FNL & 420' FWL, Sec. 18, T9S R22E
Company Permit Issued to: Kerr-McGee Oil & Gas Onshore, LP
Date Original Permit Issued: 12/3/2007

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 right-of-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

12/9/2008
Date

Title: Regulatory Analyst

Representing: Kerr-McGee Oil & Gas Onshore, LP

RECEIVED
DEC 11 2008
DIV. OF OIL, GAS & MINING

API Well No: 43047398380000

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0359

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: UTE

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 922-18F1CS

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

9. API NUMBER: 43047398380000

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

PHONE NUMBER: 720 929-6587 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1914 FNL 0420 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 18 Township: 09.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
✓ SPUD REPORT Date of Spud: 5/29/2009	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL LOCATION ON 05/29/2009 AT 1530 HRS.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
June 01, 2009

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Sheila Upchego	435 781-7024	Regulatory Analyst
SIGNATURE N/A		**DATE** 6/1/2009

RECEIVED June 01, 2009

API Well No: 43047398380000

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-0359

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 922-18F1CS

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

9. API NUMBER: 43047398380000

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

PHONE NUMBER: 720 929-6007 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1914 FNL 0420 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 18 Township: 09.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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TYPE OF SUBMISSION	TYPE OF ACTION		
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☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 6/28/2009	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
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	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

MIRU ELENBURG RIG 12 ON 06/24/2009. DRILLED 12 1/4" SURFACE HOLE TO 2906'. RAN 9 5/8" 36# J-55 SURFACE CSG. LEAD CMT W/300 SX HIFILL CLASS G @11.0 PPG 3.82 YIELD. TAILED CMT W/200 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DROP PLUG ON FLY DISPLACE W/215.9 BBLS 25 BBL OF LEAD TO SURFACE LIFT PSI 610 BUMP PLUG 1270 PSI HOLD FOR 5 MIN FLOAT HELD. RAN 200' OF 1" PIPE CMT W/125 SX PREM CLASS G @15.8 PPG 1.15 YIELD, DOWN 1" PIPE. TOP OUT W/150 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN BACKSIDE CMT TO SURFACE HOLE STAYED FULL. WORT.

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

June 29, 2009

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Sheila Wopsock	435 781-7024	Regulatory Analyst
SIGNATURE N/A		**DATE** 6/29/2009

RECEIVED June 29, 2009

API Well No: 43047398380000

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

FORM 9

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7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 922-18F1CS

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

9. API NUMBER: 43047398380000

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PHONE NUMBER: 720 929-6007 Ext

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4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1914 FNL 0420 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 18 Township: 09.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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✓ DRILLING REPORT Report Date: 9/13/2009	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
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	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

FINISHED DRILLING FROM 2906' TO 8,884' ON 09/12/2009. RAN 4-1/2" 11.6# I-80 PRODUCTION CSG. PUMP 40 BBLS H2O. LEAD CMT W/610 SX CLASS G PREM LITE @ 11.7 PPG, 2.5 YIELD. TAILED CMT W/1190 SX CLASS G 50/50 POZ MIX @ 14.3 PPG, 1.31 YIELD. DROP PLUG & DISPLACE W/150.1 BBLS H2O + ADDITIVES, LOST RETURNS AFTER 140 BBLS INTO DISPLACEMENT. LIFT PRESSURE @ 2600 PSI, BUMP PLUG W/3200 PSI, HOLD 5 MINUTES W/NO LOSS W/ 1 BBL OF LEAD CMT TO SURFACE, FLOATS HELD W/2.0 BBLS BACK TO INVENTORY. RELEASE H&P 298 RIG ON 09/13/2009 AT 23:59 HRS.

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

September 14, 2009

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andy Lytle	720 929-6100	Regulatory Analyst
SIGNATURE N/A		**DATE** 9/14/2009

RECEIVED September 14, 2009

API Well No: 43047398380000

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

FORM 9

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PHONE NUMBER: 720 929-6007 Ext

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FOOTAGES AT SURFACE: 1914 FNL 0420 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 18 Township: 09.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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✓ DRILLING REPORT Report Date: 11/17/2009	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 11/17/2009 AT 10:00 A.M. PLEASE REFER TO THE ATTACHED CHRONOLOGICAL WELL HISTORY.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
November 18, 2009

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andy Lytle	720 929-6100	Regulatory Analyst
SIGNATURE N/A		**DATE** 11/17/2009

RECEIVED November 17, 2009

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-18F1CS (GREEEN)	Spud Conductor: 5/29/2009	Spud Date: 6/24/2009
Project: UTAH-UINTAH	Site: NBU 922-18E PAD	Rig Name No: ELENBURG 12/12, H&P 298/298
Event: DRILLING	Start Date: 6/22/2009	End Date: 9/13/2009
Active Datum: RKB @4,920.00ft (above Mean Sea Level)	UWI: SW/NW/0/9/S/22/E/18/0/0/6/PM/N/1,914.00/W/0/420.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
6/24/2009	13:30 - 19:30	6.00	MIRU	01	B	P		SKID RIG FORWARD AND RIG UP RIG.
	19:30 - 21:00	1.50	MIRU	14	A	P		WELD ON CONDUCTOR HEAD, NIPPLE UP BOWIE LINE. FILL PITS
	21:00 - 22:00	1.00	DRLSUR	01	B	P		P/U MOTOR .16 RPG 7/8 LOBE W/ 57 HRS. SN 8086,MAKE UP 12-1/4" HC507Z SN 7015582. 7-18'S SCIRBE DIRECTIONAL TOOLS. CHECK MWD, INSTALL MWD.
	22:00 - 0:00	2.00	DRLSUR	02	D	P		DRILL SLIDE 40'- 161'
6/25/2009	0:00 - 6:30	6.50	DRLSUR	02	D	P		DRILL 161'- 531' (370',57'/HR) BUILD ANGLE TO 5.69 DEGREES. LAST SURVEY VEERED OFF COARSE 30 DEGREES LEFT WHILE SLIDING SLIGHTLY RIGHT. POSSIBLE COLLISION COARSE W/ 18F1BS. WENT FROM 14' TO 10' IN 90'. CHECK EQUIPMENT.
	6:30 - 9:00	2.50	DRLSUR	06	A	X		TRIP OUT AND CHECK TOOLFACE, AND MWD. CHECK BIT. BIT OK. TOOLFACE OK, MWD OK, PEFORM ROLL TEST. EVERYTHING CHECKS OUT.
	9:00 - 12:30	3.50	DRLSUR	06	A	X		TRIP IN HOLE, RECHECK MWD SURVEYS FOR INTERFERENCE AND ACCURACY, PERFORM DOWN HOLE ROLL TEST. EQUIPMENT IN GOOD WORKING ORDER. PULL OUT OF HOLE FOR .16 RPG 7/8 LOBE 2.12 DEG BENT HOUSING MOTOR.
	12:30 - 13:00	0.50	DRLSUR	07	A	P		RIG SERVICE
	13:00 - 16:30	3.50	DRLSUR	21	D	X		WAIT FOR 2.12 BENT HOUSE MOTOR TO COME FROM GRAND JUNCTION.
	16:30 - 18:30	2.00	DRLSUR	06	A	P		P/U 2.12 BENT HOUSE MOTOR. .16RPG. MAKE UP BIT #1 AND SCRIBE DIRECTIONAL TOOLS. TRIP IN HOLE.
	18:30 - 19:00	0.50	DRLSUR	03	B	X		REAM 441' TO 531' FOR DEVIATION CONTROL
	19:00 - 0:00	5.00	DRLSUR	02	D	P		DRILL SLIDE 531'- 909' (378', 75.6'/HR) WOB 8K, RPM 35, 680 GPM. SLIDE LEFT OF LINE AWAY FROM NBU 922-18F1BS TO HELP W/ MAGNETIC INTERFERENCE.
6/26/2009	0:00 - 8:30	8.50	DRLSUR	02	D	P		DRILL AND SLIDE 909'- 1482' (573',67'/HR) BUILD SLIDE TO 20 DEGREES. MOVE AWAY FROM PREVIOUS WELL TO HELP W/ MAGNETICS 14" RIGHT OF LINE. 20' HIGH. WOB 12 K, RPM 35, GPM 680.
	8:30 - 9:30	1.00	DRLSUR	08	A	P		LOSS RIGHT ANGLE BOX ON #2 PUMP, CHANGE OUT RIGHT ANGLE BOX
	9:30 - 10:00	0.50	DRLSUR	02	D	P		DRILL 1482'-1500'
	10:00 - 10:30	0.50	DRLSUR	07	A	P		RIG SERVICE.
	10:30 - 0:00	13.50	DRLSUR	02	D	P		DRILL FROM 1500'-2173' (673',50'/HR) WOB 16 K, RPM 35, GPM 680. 11' TO RIGHT, 30' ABOVE LINE.
6/27/2009	0:00 - 20:30	20.50	DRLSUR	02	D	P		DRILLSLIDE 2173'- 2906' (733', 36'/HR) 6 1/2' TO RIGHT AND 40' HIGH OF LINE. WOB 12K, ROT 30, GPM 680. TD 20:30 6/27/2009
	20:30 - 21:30	1.00	CSG	05	A	P		CIRC AND CONDITION HOLE, RUN 2 POLYMER SWEEPS,
	21:30 - 0:00	2.50	CSG	06	D	P		LDDS, LAY DOWN DIRECTIONAL TOOLS.
6/28/2009	0:00 - 1:00	1.00	CSG	06	D	P		LDDS, AND DIRECTIONAL TOOLS
	1:00 - 4:00	3.00	CSG	12	C	P		RUN 67 JTS OF 40# J-55 9-5/8 LTC CSG W/ FLOAT SHOE TO 2892'KB, FLOAT COLLAR @ 2849' KB.

Operation Summary Report

Well: NBU 922-18F1CS (GREEEN)	Spud Conductor: 5/29/2009	Spud Date: 6/24/2009
Project: UTAH-UINTAH	Site: NBU 922-18E PAD	Rig Name No: ELENBURG 12/12, H&P 298/298
Event: DRILLING	Start Date: 6/22/2009	End Date: 9/13/2009
Active Datum: RKB @4,920.00ft (above Mean Sea Level)	UWI: SW/NW/0/9/S/22/E/18/0/0/6/PM/N/1,914.00/W/0/420.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	4:00 - 5:00	1.00	CSG	05	D	P		CIRC DOWN CSG. HOLD SAFETY MEETING AND RIG UP CEMENTERS
	5:00 - 7:30	2.50	CSG	12	E	P		START H20 CATCH CIRC. PUMP 300 SX(204 bbl) OF 11#, 3.82 YD, 23 GAL/SK OF HI FILL TYPE 2 LEAD CEMENT, PUMP 200 SX OF 15.8#, 1.15 YD, 5 GAL/SK OF PREMIUM TAIL CEMENT, DROP PLUG ON FLY, DISPLACE W/ 215.9 BBLS, 25 BBLS OF LEAD TO SURFACE. LIFT PSI 610, BUMP PLUG 1270 PSI, HOLD FOR 5 MIN, FLOAT HELD. INITIAL TOP OUT DOWN 1" 125 SX(25.6 BBLS) 15.8# 1.15 YD, 5 GAL/SK. TOP OUT #2 150 SX(30 BBLS) OF 15.8# DOWN BACKSIDE. CEMENT TO SURFACE AND STAYED
	7:30 - 8:30	1.00	CSG	14	A	P		CUT OFF CONDUCTOR AND RELEASE RIG 08:30 6/28/2009
9/5/2009	14:30 - 15:00	0.50	MIRU	01	C	P		SKID RIG FROM NBU 922-18F1BS TO NBU 922-18F1CS
	15:00 - 16:00	1.00	MIRU	14	B	P		NUBOP,MUD LINES,FLOWLINE,CHOKE LINE,PRE SPUD INSPECTION
	16:00 - 20:30	4.50	MIRU	15	A	P		PRESSURE TEST PIPE RAMS, BLIND RAMS, IBOP, FLOOR VALVE, KILL LINES & KILL LINE VALVES, BOP WING VALVES , HCR VALVE + CHOKE LINE; INNER AND OUTER CHOKE VALVES & MANIFOLD TO 250 PSI LOW @ 5 MINUTES + 5000 PSI HIGH @ 10 MINUTES / TEST ANNULAR TO 250 PSI LOW @ 5 MINUTES + 2500 PSI HIGH @ 10 MINUTES / TEST SUPER CHOKE + SURFACE CASING TO 1500 PSI @ 30 MINUTES / FUNCTION TEST CLOSING UNIT – OK,
	20:30 - 21:00	0.50	PRPSPD	06	A	P		INSTALL WEAR BUSHING
	21:00 - 22:30	1.50	PRPSPD	06	A	P		PICK UP .22 / 1.83 BEND MOTOR, BIT#1 &,DIRECTIONAL TOOLS / MAKE UP M.W.D. & SURFACE TEST
	22:30 - 0:00	1.50	PRPSPD	06	A	P		TIH, INSTALL ROTATING HEAD,TAG CMT @2855'
9/6/2009	0:00 - 0:30	0.50	DRLPRO	02	F	P		TAG CMT @ 2855,DRILL CMT,FLOAT & SHOE, FLOAT @2866 SHOE @2908'
	0:30 - 6:00	5.50	DRLPRO	02	D	P		DRILL SLIDE & ROTATE F/ 2921' – T/ 3363' = 442' @ 80.3 FPH / H2O + POLYMER / WOB 14K-17K / TOP DRIVE RPM 35-40 / PUMP 105 SPM = 472 GPM / PUMP PRESSURE ON/OFF BOTTOM 1500/1350 PSI / MUD MOTOR RPM 103 / PU/SO/ROT WT 112/88/99 / TORQUE ON/OFF BOTTOM 5K/4K / SLIDE 62' IN 1.HR 10 MIN = 12% OF FOOTAGE DRILLED &19% OF HRS DRILLED.
	6:00 - 17:00	11.00	DRLPRO	02	D	P		DRILL SLIDE & ROTATE F/3363' – T/ 4310' = 947' @ 86.0 FPH / H2O + POLYMER / WOB 16K-18K / TOP DRIVE RPM 35-40 / PUMP 105 SPM = 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 1550/1400 PSI / MUD MOTOR RPM 104 / PU/SO/ROT WT 143/100/117 / TORQUE ON/OFF BOTTOM 9K/5K / SLIDE 297' IN 3.92 HRS = 32.4 OF FOOTAGE DRILLED & 35% OF HRS DRILLED.
	17:00 - 17:30	0.50	DRLPRO	07	A	P		RIG SERVICE WORK PIPE RAMS
	17:30 - 0:00	6.50	DRLPRO	02	D	P		DRILL SLIDE & ROTATE F/4310' – T/ 4950' = 640' @ 98.4 FPH / H2O + POLYMER / WOB 16K-18K / TOP DRIVE RPM 35-40 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 1750/1500 PSI / MUD MOTOR RPM 104 / PU/SO/ROT WT 153/104/121 / TORQUE ON/OFF BOTTOM 6K/5K / SLIDE 163' IN 2.25 HRS =27% OF FOOTAGE DRILLED & 40% OF HRS DRIILLED.

Well: NBU 922-18F1CS (GREEEN)	Spud Conductor: 5/29/2009	Spud Date: 6/24/2009
Project: UTAH-UINTAH	Site: NBU 922-18E PAD	Rig Name No: ELENBURG 12/12, H&P 298/298
Event: DRILLING	Start Date: 6/22/2009	End Date: 9/13/2009
Active Datum: RKB @4,920.00ft (above Mean Sea Level)	UWI: SW/NW/0/9/S/22/E/18/0/0/6/PM/N/1,914.00/W/0/420.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
9/7/2009	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL SLIDE & ROTATE F/4950' – T/ 5450' = 500' @ 83.3 FPH / H2O + POLYMER / WOB 16K-18K / TOP DRIVE RPM 35-40 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 1750/1500 PSI / MUD MOTOR RPM 109 / PU/SO/ROT WT 153/104/121 / TORQUE ON/OFF BOTTOM 9K/5K / SLIDE 55' IN 1.20 HRS =10% OF FOOTAGE DRILLED & 20% OF HRS DRIILLED.
	6:00 - 15:00	9.00	DRLPRO	02	D	P		DRILL SLIDE & ROTATE F/5450' – T/ 6203' = 753' @ 83.6 FPH / H2O + POLYMER / WOB 16K-18K / TOP DRIVE RPM 35-40 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 1750/1500 PSI / MUD MOTOR RPM 109 / PU/SO/ROT WT 153/104/121 / TORQUE ON/OFF BOTTOM 9K/5K / SLIDE 54' IN 1.25 HRS =7.1% OF FOOTAGE DRILLED & 13.8% OF HRS DRILLED.
	15:00 - 15:30	0.50	DRLPRO	07	A	P		RIG SERVICE,BOP DRILL
	15:30 - 0:00	8.50	DRLPRO	02	D	P		DRILL F/6203' – T/6994' = 791' @ 93.0 FPH / H2O + POLYMER / WOB 16K-20K / TOP DRIVE RPM 35-40 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2025/1750 PSI / MUD MOTOR RPM 109 / PU/SO/ROT WT 211/124/154 / TORQUE ON/OFF BOTTOM 13K/12K MUD WT 8.9 VIS 27
9/8/2009	0:00 - 4:30	4.50	DRLPRO	02	D	P		DRILL SLIDE & ROTATE F/6994' – T/ 7284' = 290' @ 64.4 FPH / / WOB 16K-20K / TOP DRIVE RPM 35-40 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2025/1725 PSI / MUD MOTOR RPM 109 / PU/SO/ROT WT 211/124/154 / TORQUE ON/OFF BOTTOM 13K/12K / SLIDE 35' IN 1.20 HRS =11% OF FOOTAGE DRILLED & 24% OF HRS DRILLED
	4:30 - 6:30	2.00	DRLPRO	22	L	Z		500 PSI PRESSURE LOSS,CHECK SURFACE EQUIP,TOH 6 STDS TO 6552', FOUND WASH OUT IN DP (SLIP AREA),REPLACE BAD JT, CHECK PRESSURE,TIH
	6:30 - 16:00	9.50	DRLPRO	02	D	P		DRILL SLIDE & ROTATE F/7284' – T/ 7531' = 247' @ 26 FPH / / WOB 16K-20K / TOP DRIVE RPM 35-40 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2025/1725 PSI / MUD MOTOR RPM 109 / PU/SO/ROT WT 235/130/163 / TORQUE ON/OFF BOTTOM 13K/10K / SLIDE 48' IN 3 HRS =19.4% OF FOOTAGE & 31% OF HRS DRILLED
	16:00 - 16:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	16:30 - 0:00	7.50	DRLPRO	02	D	P		DRILL SLIDE & ROTATE F/7531' – T/ 7763' = 232' @30.9 FPH / / WOB 16K-20K / TOP DRIVE RPM 35-40 / PUMP 105 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2025/1785 PSI / MUD MOTOR RPM 109 / PU/SO/ROT WT 238/1130/167 / TORQUE ON/OFF BOTTOM 13K/12K / SLIDE 21' IN 1.10 HRS =11% OF FOOTAGE & 19% OF HRS
9/9/2009	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL SLIDE & ROTATE F/7763' – T/ 7925' = 162' @27 FPH / / WOB 16K-22K / TOP DRIVE RPM 35-45 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2025/1785 PSI / MUD MOTOR RPM 109 / PU/SO/ROT WT 240/135/168 / TORQUE ON/OFF BOTTOM 13K/12K / SLIDE 20' IN 1.10 HRS =11% OF FOOTAGE & 19% OF HRS.

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-18F1CS (GREEEN)	Spud Conductor: 5/29/2009	Spud Date: 6/24/2009
Project: UTAH-UINTAH	Site: NBU 922-18E PAD	Rig Name No: ELENBURG 12/12, H&P 298/298
Event: DRILLING	Start Date: 6/22/2009	End Date: 9/13/2009
Active Datum: RKB @4,920.00ft (above Mean Sea Level)	UWI: SW/NW/0/9/S/22/E/18/0/0/6/PM/N/1,914.00/W/0/420.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	6:00 - 17:30	11.50	DRLPRO	02	D	P		DRILL F/7925' – T/ 8219' = 294' @25.6 FPH / / WOB 16K-22K / TOP DRIVE RPM 35-45 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2150/2150 PSI / MUD MOTOR RPM 109 / PU/SO/ROT WT 250/135/170 / TORQUE ON/OFF BOTTOM 15K/14K
	17:30 - 18:00	0.50	DRLPRO	07	A	P		RIG SERVICE ,WORK PIPE RAMS
	18:00 - 23:30	5.50	DRLPRO	02	D	P		DRILL F/7925' – T/ 8336' = 111@ 20.1 FPH / WOB 16K-24K / TOP DRIVE RPM 30-45 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2250/2150 PSI / MUD MOTOR RPM 109 / PU/SO/ROT WT 255/135/170 / TORQUE ON/OFF BOTTOM 15K/14K
	23:30 - 0:00	0.50	DRLPRO	06	A	P		TRIP F/ BIT #1/ STRAIGHT PULL OFF BTM 310K,PULL 5 STDS PUMP SLUG,TOH
9/10/2009	0:00 - 3:30	3.50	DRLPRO	06	A	P		TOH W/ BIT #1 ,,WORK THRU TIGHT SPOT @ 5250' PULLED 50 OVER,FLOW CHECK @ SHOE,TOH
	3:30 - 5:00	1.50	DRLPRO	06	A	P		FUNCT PIPE,BLIND& RAMS,BREAK BIT,L/D .22 M MTR,PU .16 MTR,W/ 1.50 BEND ,Q506F BIT,MWD & SURFACE TEST TOOLS
	5:00 - 6:00	1.00	DRLPRO	06	A	P		TIH W / BHA,INSTALL ROTATING HEAD,TIH TO CSG SHOE.BREAK CIRC.
	6:00 - 7:00	1.00	DRLPRO	09	A	P		CUT & SLIP 500' OF DRILL LINE
	7:00 - 9:30	2.50	DRLPRO	06	A	P		TIH ,CLEAN OUT TIGHT SPOTS @ 5252,8150
	9:30 - 10:00	0.50	DRLPRO	03	D	P		W & R 94' TO BTM 15' FILL
	10:00 - 17:30	7.50	DRLPRO	02	D	P		DRILL F/8336' – T/8680' =344'@ 45.8 FPH / WOB 16-18 / TOP DRIVE RPM 30-45 / PUMP 105 SPM = 475 GPM / PUMP PRESSURE ON/OFF BOTTOM 2500/2340 PSI / MUD MOTOR RPM 76 / PU/SO/ROT WT 275/125/178 / TORQUE ON/OFF BOTTOM 15K/14K
	17:30 - 18:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILL(R&S) F/8336' – T/8680' =344'@ 45.8 FPH / WOB 16-18 / TOP DRIVE RPM 30-45 / PUMP 105 SPM = 475 GPM / PUMP PRESSURE ON/OFF BOTTOM 2500/2340 PSI / MUD MOTOR RPM 76 / PU/SO/ROT WT 275/125/178 / TORQUE ON/OFF BOTTOM 15K/14K ,SLIDE TIME1 HR 20 MIN =10% OF FOOTAGE,18% OF TIME
9/11/2009	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL(R&S) F/8950' – T/9185' =235'@ 39.1 FPH / WOB 16-18 / TOP DRIVE RPM 30-45 / PUMP 105 SPM = 475 GPM / PUMP PRESSURE ON/OFF BOTTOM 2750/2530 PSI / MUD MOTOR RPM 76 / PU/SO/ROT WT 270/140/187/ TORQUE ON/OFF BOTTOM 15K/14K ,SLIDE TIME1 HR 20 MIN =10% OF FOOTAGE,18% OF TIME.
	6:00 - 17:30	11.50	DRLPRO	02	D	P		DRILL(R&S) F/9185' – T/9629' =444'@38.6 FPH / WOB 16-20 / TOP DRIVE RPM 30-45 / PUMP 100 SPM = 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 2650/2475 PSI / MUD MOTOR RPM 72 / PU/SO/ROT WT 270/140/187/ TORQUE ON/OFF BOTTOM 16K/15K ,SLIDE TIME1 HR 30 MIN =11.6% OF FOOTAGE,13% OF TIME.BYPASS SKAKERS @9210'MW 11.4 LCM 12% LOST 110 BBLS MUD
	17:30 - 18:00	0.50	DRLPRO	07	A	P		RIG SERVICE,BOP DRILL

Well: NBU 922-18F1CS (GREEEN)	Spud Conductor: 5/29/2009	Spud Date: 6/24/2009
Project: UTAH-UINTAH	Site: NBU 922-18E PAD	Rig Name No: ELENBURG 12/12, H&P 298/298
Event: DRILLING	Start Date: 6/22/2009	End Date: 9/13/2009
Active Datum: RKB @4,920.00ft (above Mean Sea Level)	UWI: SW/NW/0/9/S/22/E/18/0/0/6/PM/N/1,914.00/W/0/420.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILL F/9629' – T/9800' =171'@28.5 FPH / WOB 18-22 / TOP DRIVE RPM 30-45 / PUMP 100 SPM = 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 2650/2475 PSI / MUD MOTOR RPM 72 / PU/SO/ROT WT 300/150/194/ TORQUE ON/OFF BOTTOM 16K/14K ,SLIDE TIME1 HR 45 MIN =20%OF FOOTAGE,29% OF TIME.LOST 80 BBLS MUD, MW 11.5 LCM 15%
9/12/2009	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL F/9800' – T/9975' =175'@29.1FPH / WOB 18-22 / TOP DRIVE RPM 30-45 / PUMP 100 SPM = 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 2683/2520 PSI / MUD MOTOR RPM 72 / PU/SO/ROT WT 300/150/196/ TORQUE ON/OFF BOTTOM 16K/15K ,SLIDE TIME1 HR 30 MIN = 25'(.LOST 80 BBLS MUD, MW 11.5 LCM 15%
	6:00 - 11:30	5.50	DRLPRO	02	D	P		DRILL F/9997' – T/10160' TD=163'@29.6FPH / WOB 18-24 / TOP DRIVE RPM 30-45 / PUMP 100 SPM = 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 2683/2520 PSI / MUD MOTOR RPM 72 / PU/SO/ROT WT 300/150/196/ TORQUE ON/OFF BOTTOM 16K/15K MUD, MW 11.7 TD @ 11:30 9/12-09
	11:30 - 13:00	1.50	DRLPRO	05	C	P		CCH F/ WIPER TRIP,LOSING MUD LCM TO 20% (LOST 75 BBLS) MW 11.7
	13:00 - 16:30	3.50	DRLPRO	06	E	P		WIPER TRIP TO CSG SHOE TIGHT SPOTS 6735/ 6700 / 6650 / 6525
	16:30 - 17:00	0.50	DRLPRO	07	A	P		RIG SERVICE FLOW CHECK,BREAK CIRC
	17:00 - 20:00	3.00	DRLPRO	06	E	P		TIH,BREAK CIRC @ 6950,CIH TO 10,075, BREAK CIRC WASH TO BTM,
	20:00 - 21:30	1.50	DRLPRO	05	C	P		CCH, TRIP GAS 7031 UNITS 5' FLARE,HSM W/ WEATHERFORD TRS RU SAME.
	21:30 - 0:00	2.50	DRLPRO	06	B	P		LDDS,PUMP & ROTATE 8 STDS OFF BTM ,PUMP SLUG,POOH L/D DP
9/13/2009	0:00 - 8:00	8.00	DRLPRO	06	B	P		LDDS ,PULL ROTATING HEAD,L/D HWDP,DIRECTIONAL TOOLS,PULL WEAR BUSHING
	8:00 - 12:00	4.00	DRLPRO	11	E	P		HSM, RU HALLIBURTON RUN TRIPLE COMBO,LOGS STOPPED @ 6750',LOG OUT TO SURFACE,RDMO
	12:00 - 13:00	1.00	DRLPRO	12	A	P		HSM, RIG UP WEATHERFORD TRS
	13:00 - 20:00	7.00	DRLPRO	12	C	P		RUN 7 JTS P-110 11.6# LT&C ,1 JT OF P-110,11.6# LTC X/O TO BTC 4.5 CASING + 227 JTS I-80 #11.6 BTC 4.5 CASING + RELATED TOOLS / BREAKING CIRCULATION @ SELECTED INTERVALS /WASH JT DOWN @6735,6775,CIH, STOP @10,155 ' / INSTALL MANDREL & ROTATING RUBBER / RU TO CIRC CSG &,BREAK CIRC
	20:00 - 21:00	1.00	DRLPRO	05	D	P		CIRCULATE & CONDITION HOLE FOR CEMENT / R.D.M.O. CASING EQUIPMENT / RU B.J. CEMENTING EQUIPMENT HSM ,BTMS UP GAS 6920 UNITS W/ 5' FLARE

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-18F1CS (GREEEN)	Spud Conductor: 5/29/2009	Spud Date: 6/24/2009
Project: UTAH-UINTAH	Site: NBU 922-18E PAD	Rig Name No: ELENBURG 12/12, H&P 298/298
Event: DRILLING	Start Date: 6/22/2009	End Date: 9/13/2009
Active Datum: RKB @4,920.00ft (above Mean Sea Level)	UWI: SW/NW/0/9/S/22/E/18/0/0/6/PM/N/1,914.00/W/0/420.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	21:00 - 23:00	2.00	DRLPRO	12	E	P		TEST PUMPS & LINES TO 5000 PSI / PUMP 40 BBLS DYED H2O / PUMPED + 610 SX LEAD CEMENT @ 11.7 ppg (PREM LITE II + .05llbs/sx STATIC FREE + .25 pps CELLOFLAKE + 5 pps KOL SEAL + 8% bwoc BENTONITE + .2% bwoc SODIUM METASILICATE + 203 BBLS H2O / (14.24 gal/sx, 2.50 yield PUMP 1190 SX TAIL @ 14.3 ppg (CLS G 50/50 POZ + 10% SALT + .05llbs/sx STATIC FREE + .2% R3 + .002 GPS FP-6L + 2% BENTONITE + 167 BBLS H2O / (5.90 gal/sx, 1.31 yiel / DROP PLUG & DISPLACE W/ 157.2 BBLS H2O + ADDITIVES / LOST RETURNS AFTER 140 BBLS INTO DISPLACEMENT / LIFT PRESSURE @ 2600 PSI (CALC TOP OF TAIL @ 4000') / BUMP PLUG W/ 3200 PSI - HOLD 5 MINUTES W/ NO LOSS / W/ 1 BBL OF LEAD CMT TO SURFACE / FLOATS HELD W/ 2.0 BBLS BACK TO INVENTORY
	23:00 - 23:30	0.50	DRLPRO	12	B	P		LAND CSG W / 75K,SHOE @ 10,156' FLOAT @ 10,112,L/D LANDING JT
	23:30 - 0:00	0.50	DRLPRO	14	A	P		NIPPLE DOWN BOP,RIG RELEASED TO NBU 922-1832F2S @ 23:59 HRS 09/13/2009

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-18F1CS (GREEEN)	Spud Conductor: 5/29/2009	Spud Date: 6/24/2009
Project: UTAH-UINTAH	Site: NBU 922-18E PAD	Rig Name No:
Event: COMPLETION	Start Date: 11/9/2009	End Date: 11/13/2009
Active Datum: RKB @4,920.00ft (above Mean Sea Level)	UWI: SW/NW/0/9/S/22/E/18/0/0/6/PM/N/1,914.00/W/0/420.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
11/9/2009	7:00 - 18:00	11.00	COMP	36	B	P		STG 1)PU 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF F/ 10032'-36', 4 SPF, 16 HOLES. 10015'-17', 4 SPF, 8 HOLES. 9828'-32', 4 SPF, 16 HOLES. POOH. WHP 147 PSI, BRK 5182 PSI @ 6.4 BPM. ISIP 3007 PSI, FG .73. PUMP 100 BBLS @ 44 BPM @ 5700 PSI = 95% HOLES OPEN. MP 6692 PSI, MR 50 BPM, AP 4926 PSI, AR 39.6 BPM, ISIP 2960 PSI, FG .73, NPI 47 PSI. PMP 852 BBLS SW & 20,627 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 25,627 LBS, STG 2)PU 4 1/2 8K BAKER CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 9750' P/U PERF F/ 9718'-20', 4 SPF, 8 HOLES. 9700'-02', 4 SPF, 8 HOLES. 9622'-26', 3 SPF, 12 HOLES. 9548'-50', 4 SPF, 8 HOLES. 9480'-82', 4 SPF, 8 HOLES. POOH. WHP 2210 PSI, BRK 3348 PSI @ 6.4 BPM. ISIP 2523 PSI, FG .69. PUMP 100 BBLS @ 52.3 BPM @ 5138 PSI = 100% HOLES OPEN. PUMP 108,145# 30/50 WHITE NO 20/40 TLC. SCREEN OUT. LEFT 5,000# 30/40 WHITE IN FORMATION. OPEN WELL T/ PIT. FLOW BACK WELL FOR 15 MIN. REFLUSH WELL. SWI. SDFN.

Well: NBU 922-18F1CS (GREEEN)	Spud Conductor: 5/29/2009	Spud Date: 6/24/2009
Project: UTAH-UINTAH	Site: NBU 922-18E PAD	Rig Name No:
Event: COMPLETION	Start Date: 11/9/2009	End Date: 11/13/2009
Active Datum: RKB @4,920.00ft (above Mean Sea Level)	UWI: SW/NW/0/9/S/22/E/18/0/0/6/PM/N/1,914.00/W/0/420.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
11/10/2009	7:00 - 17:00	10.00	COMP	36	B	P		STG 3)PU 4 1/2 8K BAKER CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE, 90 & 120 DEG PHASING. RIH SET CBP @ 9322' P/U PERF F/ 9288'-92', 4 SPF, 16 HOLES. 9254'-56', 4 SPF, 8 HOLES. 9188'-94', 3 SPF, 18 HOLES. POOH. WHP 1971 PSI, BRK 4853 PSI @ 6.4 BPM. ISIP 2320 PSI, FG .68. PUMP 100 BBLS @ 50.6 BPM @ 5061 PSI = 88% HOLES OPEN. MP 6253 PSI, MR 50.8 BPM, AP 4471 PSI, AR 46.1 BPM, ISIP 2316 PSI, FG .68, NPI 000 PSI. PMP 1418 BBLS SW & 52,191 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 57,191 LBS, STG 4)PU 4 1/2 8K BAKER CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE, 90 & 120 DEG PHASING. RIH SET CBP @ 9122' P/U PERF F/ 9090'-92', 4 SPF, 8 HOLES. 9032'-36', 3 SPF, 12 HOLES. 9010'-12', 4 SPF, 8 HOLES. 8962'-66', 3 SPF, 12 HOLES. POOH. WHP 1994 PSI, BRK 2640 PSI @ 6.4 BPM. ISIP 2121 PSI, FG .66. PUMP 100 BBLS @ 50.6 BPM @ 4700 PSI = 100% HOLES OPEN. MP 5391 PSI, MR 50.8 BPM, AP 4272 PSI, AR 45.8 BPM, ISIP 2450 PSI, FG .70, NPI 329 PSI. PMP 1146 BBLS SW & 40,264 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 45,264 LBS, STG 5)PU 4 1/2 8K BAKER CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 8826' P/U PERF F/ 8794'-96', 4 SPF, 8 HOLES. 8757'-60', 4 SPF, 12 HOLES. 8706'-08', 3 SPF, 6 HOLES. 8609'-12', 3 SPF, 9 HOLES. 8558'-60', 3 SPF, 6 HOLES. POOH. SWI, SDFN.
11/11/2009	6:30 - 7:00	0.50	COMP	48		P		HSM. SIM OPS.

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-18F1CS (GREEEN)	Spud Conductor: 5/29/2009	Spud Date: 6/24/2009
Project: UTAH-UINTAH	Site: NBU 922-18E PAD	Rig Name No:
Event: COMPLETION	Start Date: 11/9/2009	End Date: 11/13/2009
Active Datum: RKB @4,920.00ft (above Mean Sea Level)	UWI: SW/NW/0/9/S/22/E/18/0/0/6/PM/N/1,914.00/W/0/420.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:00 - 17:00	10.00	COMP	36	B	P		STG 5)WHP 1815 PSI, BRK 3190 PSI @ 6.4 BPM. ISIP 2850 PSI, FG .76. PUMP 100 BBLS @ 50.5 BPM @ 4570 PSI = 100% HOLES OPEN. MP 6205 PSI, MR 51.7 BPM, AP 4446 PSI, AR 49 BPM, ISIP 2719 PSI, FG .74, NPI -131 PSI. PMP 4131 BBLS SW & 153,032 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 158,032 LBS, STG 6)PU 4 1/2 8K BAKER CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE, 90 & 120 DEG PHASING. RIH SET CBP @ 8340' P/U PERF F/ 8306'-10', 3 SPF, 12 HOLES. 8266'-68', 4 SPF, 8 HOLES. 8210'-12', 4 SPF, 8 HOLES. 8184'-86', 3 SPF, 6 HOLES. 8078'-80', 3 SPF, 6 HOLES. POOH. WHP 1020 PSI, BRK 2491 PSI @ 6.4 BPM. ISIP 1630 PSI, FG .63. PUMP 100 BBLS @ 50.6 BPM @ 4300 PSI = 83% HOLES OPEN. MP 4879 PSI, MR 51.8 BPM, AP 3971 PSI, AR 49.2 BPM, ISIP 2616 PSI, FG .75, NPI 986 PSI. PMP 2153 BBLS SW & 81,423 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 86,423 LBS, PU 4 1/2 8K BAKER CBP. RIH SET KILL PLUG @ 8028'. POOH. SWI.
11/12/2009	6:45 - 7:00	0.25	COMP	48		P		JSA-
	7:00 - 13:00	6.00	COMP	30	G	P		RDSU. ROAD RIG AND EQUIP FROM NBU 1022-10B PAD (MUDDY ROADS) TO LOCATION. RUSU. ND FRAC VALVES. NU BOP. RU FLOOR AND TBG EQUIP. SPOT TBG TRAILER
	13:00 - 18:00	5.00	COMP	31	I	P		MU 3-7/8" HURRICANE MILL, POBS, 1.87" XN AND RIH AS PMES AND PU 2-3/8" L-80 TBG. RIH W/ 250-JTS. SDFN W/ EOT AT 7827'.
11/13/2009	6:45 - 7:00	0.25	COMP	48		P		JSA- D/O PLUGS. LANDING HANGER.

Operation Summary Report

Well: NBU 922-18F1CS (GREEEN)	Spud Conductor: 5/29/2009	Spud Date: 6/24/2009
Project: UTAH-UINTAH	Site: NBU 922-18E PAD	Rig Name No:
Event: COMPLETION	Start Date: 11/9/2009	End Date: 11/13/2009
Active Datum: RKB @4,920.00ft (above Mean Sea Level)	UWI: SW/NW/0/9/S/22/E/18/0/0/6/PM/N/1,914.00/W/0/420.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:00 - 21:30	14.50	COMP	44	C	P		OPEN UP WELL. CONT PU JTS TO TAG SAND AT 8018' W/ 256-JTS IN. RU DRLG EQUIP. FLUSH LINES. MU PWR SWIVEL. FILL TBG. P-TEST TO 3000 PSI. GOOD. EST CIRC. D/O PLUGS. #1- C/O 10' SAND TO CBP AT 8028'. D/O IN 75 MIN. 250# INC. RIH. #2- C/O 24' SAND TO CBP AT 8340'. D/O IN 35 MIN. 300# INC. RIH. #3- C/O 29' SAND TO CBP AT 8826'. D/O IN 55 MIN. 200# INC. RIH. #4- C/O 27' SAND TO CBP AT 9122'. D/O IN 37 MIN. 50# INC. RIH. #5- C/O 34' SAND TO CBP AT 9322'. D/O IN 35 MIN. 50# INC. RIH. #6- C/O 30' SAND TO CBP AT 9750'. D/O IN MIN. # INC. RIH. PBTD- C/O ' SAND TO PBTD AT 10,084' W/ JTS IN (48' RATHOLE). CIRC CLEAN. RD PWR SWIVEL. POOH AS LD 21-JTS. PU 7-1/16" 5K HANGER. LUB IN AND LAND 301-JTS 2-3/8" L-80 TBG W/ EOT AT 9445.41'. RD FLOOR. ND BOP. DROP BALL. NU WH. HOOK UP FLOW LINES. PMP DOWN TBG AND RELEASE BIT SUB AT 1900#. SICP 2050#. SITP 700#. OPEN TBG- FCP 50#. TURN WELL OVER TO FLOW BACK CREW. SDFN. WILL RD IN AM. NOTE: HOLE HAS HIGH TURN AROUND DUE TO DEVIATION. 20-30K OVER PULL AS POOH. HIGH TORQUE AS D/O PLUGS. TBG DETAIL KB 26.00 BBL PMP 12,506 7-1/16" 5K HANGER 1.00 BBL RCVR 3721 301-JTS 2-3/8" L-80 T BG 9416.21 BBL LTR 8785 1.87" XN (FE) 2.20 329 JTS OUTBOUND EOT 9445.41 28 JTS INBOUND
11/16/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 2650#, TP 1725#, 20/64" CK, 48 BWPH, TRACE SAND, LIGHT GAS TTL BBLS RECOVERED: 4302 BBLS LEFT TO RECOVER: 8204
11/17/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 3175#, TP 1875#, 20/64" CK, 43 BWPH, TRACE SAND, MEDIUM GAS TTL BBLS RECOVERED: 5385 BBLS LEFT TO RECOVER: 7121
	10:00 -		PROD	50				WELL TURNED TO SALE @ 1000 HR ON 11/17/09 - FTP 1900#, CP 3125#, 1.9 MCFD, 43 BWPD, 20/64 CK

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. UTU0359

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator KERR-MCGEE OIL&GAS ONSHORE LP Contact: ANDY LYTLE Mail: andrew.lytle@anadarko.com

8. Lease Name and Well No. NBU 922-18F1CS

3. Address P.O. BOX 173779 DENVER, CO 80217

3a. Phone No. (include area code) Ph: 720-929-6100

9. API Well No. 43-047-39838

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

At surface SWNW 1914FNL 420FWL 40.03803 N Lat, 109.48854 W Lon

At top prod interval reported below SENW 1716FNL 1949FWL

At total depth SENW 1738FNL 1953FWL 1739 FNL 1954 FWL

10. Field and Pool, or Exploratory NATURAL BUTTES

11. Sec., T., R., M., or Block and Survey or Area Sec 18 T9S R22E Mer

12. County or Parish UINTAH

13. State UT

14. Date Spudded 05/29/2009

15. Date T.D. Reached 09/12/2009

16. Date Completed ☐ D & A ☒ Ready to Prod. 11/17/2009

17. Elevations (DF, KB, RT, GL)* 4894 GL

18. Total Depth: MD 10165 TVD 9908

19. Plug Back T.D.: MD 10111 TVD 9854

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CHI TRIPLE COMBO-BHV-ACRT/DSN/SDL ~~C~~ BL

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STEEL	36.7		40		28			
12.250	9.625 J-55	36.0		2907		775			
7.875	4.500 I-80	11.6		10157		1800			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	9445							

25. Producing Intervals / 26. Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)	MESAVERDE	8078	10036	8078 TO 10036	0.360	247	OPEN
B)							
C)							
D)							

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
8078 TO 10036	PMP 12,506 BBLS SLICK H20 & 480,682 LBS 30/50 SD.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
11/17/2009	11/22/2009	24	→		2248.0	100.0			FLOWS FROM WELL

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
20/64	1900 SI	2850.0	→		2248	100		PGW

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

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(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #78836 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

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

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
GREEN RIVER	1809				
MAHOGANY	2452				
WASATCH	5337	7772			
MESAVERDE	8048	10040			

32. Additional remarks (include plugging procedure):
ATTACHED TO THIS COMPLETION REPORT IS THE CHRONOLOGICAL WELL HISTORY AND END OF WELL REPORT.

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.)
2. Geologic Report
3. DST Report
4. Directional Survey
5. Sundry Notice for plugging and cement verification
6. Core Analysis
7 Other:

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

Electronic Submission #78836 Verified by the BLM Well Information System.
For KERR-MCGEE OIL&GAS ONSHORE, LP, sent to the Vernal

Name *(please print)* ANDY LYTLE Title REGULATORY ANALYST

Signature (Electronic Submission) Date 12/15/2009

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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 fradulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

Well: NBU 922-18F1CS (GREEEN)	Spud Conductor: 5/29/2009	Spud Date: 6/24/2009	
Project: UTAH-UINTAH	Site: NBU 922-18E PAD		Rig Name No: ELENBURG 12/12, H&P 298/298
Event: DRILLING	Start Date: 6/22/2009		End Date: 9/13/2009
Active Datum: RKB @4,920.00ft (above Mean Sea Level)	UWI: SW/NW/0/9/S/22/E/18/0/0/6/PM/N/1,914.00/W/0/420.00/0/0		

Date	Time	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
6/24/2009	13:30 - 19:30	6.00	MIRU	01	B	P		SKID RIG FORWARD AND RIG UP RIG.
	19:30 - 21:00	1.50	MIRU	14	A	P		WELD ON CONDUCTOR HEAD, NIPPLE UP BOWIE LINE. FILL PITS
	21:00 - 22:00	1.00	DRLSUR	01	B	P		P/U MOTOR .16 RPG 7/8 LOBE W/ 57 HRS. SN 8086,MAKE UP 12-1/4" HC507Z SN 7015582. 7-18'S SCIRBE DIRECTIONAL TOOLS. CHECK MWD, INSTALL MWD.
	22:00 - 0:00	2.00	DRLSUR	02	D	P		DRILL SLIDE 40'- 161'
6/25/2009	0:00 - 6:30	6.50	DRLSUR	02	D	P		DRILL 161'- 531' (370',57'/HR) BUILD ANGLE TO 5.69 DEGREES. LAST SURVEY VEERED OFF COARSE 30 DEGREES LEFT WHILE SLIDING SLIGHTLY RIGHT. POSSIBLE COLLISION COARSE W/ 18F1BS. WENT FROM 14' TO 10' IN 90'. CHECK EQUIPMENT.
	6:30 - 9:00	2.50	DRLSUR	06	A	X		TRIP OUT AND CHECK TOOLFACE, AND MWD. CHECK BIT. BIT OK. TOOLFACE OK, MWD OK, PEFORM ROLL TEST. EVERYTHING CHECKS OUT.
	9:00 - 12:30	3.50	DRLSUR	06	A	X		TRIP IN HOLE, RECHECK MWD SURVEYS FOR INTERFERENCE AND ACCURACY, PERFORM DOWN HOLE ROLL TEST. EQUIPMENT IN GOOD WORKING ORDER. PULL OUT OF HOLE FOR .16 RPG 7/8 LOBE 2.12 DEG BENT HOUSING MOTOR.
	12:30 - 13:00	0.50	DRLSUR	07	A	P		RIG SERVICE
	13:00 - 16:30	3.50	DRLSUR	21	D	X		WAIT FOR 2.12 BENT HOUSE MOTOR TO COME FROM GRAND JUNCTION.
	16:30 - 18:30	2.00	DRLSUR	06	A	P		P/U 2.12 BENT HOUSE MOTOR. .16RPG. MAKE UP BIT #1 AND SCRIBE DIRECTIONAL TOOLS. TRIP IN HOLE.
	18:30 - 19:00	0.50	DRLSUR	03	B	X		REAM 441' TO 531' FOR DEVIATION CONTROL
	19:00 - 0:00	5.00	DRLSUR	02	D	P		DRILL SLIDE 531'- 909' (378', 75.6'/HR) WOB 8K, RPM 35, 680 GPM. SLIDE LEFT OF LINE AWAY FROM NBU 922-18F1BS TO HELP W/ MAGNETIC INTERFERENCE.
6/26/2009	0:00 - 8:30	8.50	DRLSUR	02	D	P		DRILL AND SLIDE 909'- 1482' (573',67'/HR) BUILD SLIDE TO 20 DEGREES. MOVE AWAY FROM PREVIOUS WELL TO HELP W/ MAGNETICS 14" RIGHT OF LINE. 20' HIGH. WOB 12 K, RPM 35, GPM 680.
	8:30 - 9:30	1.00	DRLSUR	08	A	P		LOSS RIGHT ANGLE BOX ON #2 PUMP, CHANGE OUT RIGHT ANGLE BOX
	9:30 - 10:00	0.50	DRLSUR	02	D	P		DRILL 1482'-1500'
	10:00 - 10:30	0.50	DRLSUR	07	A	P		RIG SERVICE.
	10:30 - 0:00	13.50	DRLSUR	02	D	P		DRILL FROM 1500'-2173' (673',50'/HR) WOB 16 K, RPM 35, GPM 680. 11' TO RIGHT, 30' ABOVE LINE.
6/27/2009	0:00 - 20:30	20.50	DRLSUR	02	D	P		DRILLSLIDE 2173'- 2906' (733', 36'/HR) 6 1/2' TO RIGHT AND 40' HIGH OF LINE. WOB 12K, ROT 30, GPM 680. TD 20:30 6/27/2009
	20:30 - 21:30	1.00	CSG	05	A	P		CIRC AND CONDITION HOLE, RUN 2 POLYMER SWEEPS,
	21:30 - 0:00	2.50	CSG	06	D	P		LDDS, LAY DOWN DIRECTIONAL TOOLS.
6/28/2009	0:00 - 1:00	1.00	CSG	06	D	P		LDDS, AND DIRECTIONAL TOOLS
	1:00 - 4:00	3.00	CSG	12	C	P		RUN 67 JTS OF 40# J-55 9-5/8 LTC CSG W/ FLOAT SHOE TO 2892'KB, FLOAT COLLAR @ 2849' KB.

Well: NBU 922-18F1CS (GREEEN)	Spud Conductor: 5/29/2009	Spud Date: 6/24/2009	
Project: UTAH-UINTAH	Site: NBU 922-18E PAD		Rig Name No: ELENBURG 12/12, H&P 298/298
Event: DRILLING	Start Date: 6/22/2009		End Date: 9/13/2009
Active Datum: RKB @4,920.00ft (above Mean Sea Level)	UWI: SW/NW/0/9/S/22/E/18/0/0/6/PM/N/1,914.00/W/0/420.00/0/0		

	4:00 - 5:00	1.00	CSG	05	D	P	CIRC DOWN CSG. HOLD SAFETY MEETING AND RIG UP CEMENTERS
	5:00 - 7:30	2.50	CSG	12	E	P	START H20 CATCH CIRC. PUMP 300 SX(204 bbl) OF 11#, 3.82 YD, 23 GAL/SK OF HI FILL TYPE 2 LEAD CEMENT, PUMP 200 SX OF 15.8#, 1.15 YD, 5 GAL/SK OF PREMIUM TAIL CEMENT, DROP PLUG ON FLY, DISPLACE W/ 215.9 BBLS, 25 BBLS OF LEAD TO SURFACE. LIFT PSI 610, BUMP PLUG 1270 PSI, HOLD FOR 5 MIN, FLOAT HELD. INITIAL TOP OUT DOWN 1" 125 SX(25.6 BBLS) 15.8# 1.15 YD, 5 GAL/SK. TOP OUT #2 150 SX(30 BBLS) OF 15.8# DOWN BACKSIDE. CEMENT TO SURFACE AND STAYED
	7:30 - 8:30	1.00	CSG	14	A	P	CUT OFF CONDUCTOR AND RELEASE RIG 08:30 6/28/2009
9/5/2009	14:30 - 15:00	0.50	MIRU	01	C	P	SKID RIG FROM NBU 922-18F1BS TO NBU 922-18F1CS
	15:00 - 16:00	1.00	MIRU	14	B	P	NUBOP,MUD LINES,FLOWLINE,CHOKE LINE,PRE SPUD INSPECTION
	16:00 - 20:30	4.50	MIRU	15	A	P	PRESSURE TEST PIPE RAMS, BLIND RAMS, IBOP, FLOOR VALVE, KILL LINES & KILL LINE VALVES, BOP WING VALVES , HCR VALVE + CHOKE LINE; INNER AND OUTER CHOKE VALVES & MANIFOLD TO 250 PSI LOW @ 5 MINUTES + 5000 PSI HIGH @ 10 MINUTES / TEST ANNULAR TO 250 PSI LOW @ 5 MINUTES + 2500 PSI HIGH @ 10 MINUTES / TEST SUPER CHOKE + SURFACE CASING TO 1500 PSI @ 30 MINUTES / FUNCTION TEST CLOSING UNIT – OK,
	20:30 - 21:00	0.50	PRPSPD	06	A	P	INSTALL WEAR BUSHING
	21:00 - 22:30	1.50	PRPSPD	06	A	P	PICK UP .22 / 1.83 BEND MOTOR, BIT#1 &,DIRECTIONAL TOOLS / MAKE UP M.W.D. & SURFACE TEST
	22:30 - 0:00	1.50	PRPSPD	06	A	P	TIH, INSTALL ROTATING HEAD,TAG CMT @2855'
9/6/2009	0:00 - 0:30	0.50	DRLPRO	02	F	P	TAG CMT @ 2855,DRILL CMT,FLOAT & SHOE, FLOAT @2866 SHOE @2908'
	0:30 - 6:00	5.50	DRLPRO	02	D	P	DRILL SLIDE & ROTATE F/ 2921' – T/ 3363' = 442' @ 80.3 FPH / H2O + POLYMER / WOB 14K-17K / TOP DRIVE RPM 35-40 / PUMP 105 SPM = 472 GPM / PUMP PRESSURE ON/OFF BOTTOM 1500/1350 PSI / MUD MOTOR RPM 103 / PU/SO/ROT WT 112/88/99 / TORQUE ON/OFF BOTTOM 5K/4K / SLIDE 62' IN 1.HR 10 MIN = 12% OF FOOTAGE DRILLED &19% OF HRS DRILLED.
	6:00 - 17:00	11.00	DRLPRO	02	D	P	DRILL SLIDE & ROTATE F/3363' – T/ 4310' = 947' @ 86.0 FPH / H2O + POLYMER / WOB 16K-18K / TOP DRIVE RPM 35-40 / PUMP 105 SPM = 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 1550/1400 PSI / MUD MOTOR RPM 104 / PU/SO/ROT WT 143/100/117 / TORQUE ON/OFF BOTTOM 9K/5K / SLIDE 297' IN 3.92 HRS = 32.4 OF FOOTAGE DRILLED & 35% OF HRS DRILLED.
	17:00 - 17:30	0.50	DRLPRO	07	A	P	RIG SERVICE WORK PIPE RAMS
	17:30 - 0:00	6.50	DRLPRO	02	D	P	DRILL SLIDE & ROTATE F/4310' – T/ 4950' = 640' @ 98.4 FPH / H2O + POLYMER / WOB 16K-18K / TOP DRIVE RPM 35-40 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 1750/1500 PSI / MUD MOTOR RPM 104 / PU/SO/ROT WT 153/104/121 / TORQUE ON/OFF BOTTOM 6K/5K / SLIDE 163' IN 2.25 HRS =27% OF FOOTAGE DRILLED & 40% OF HRS DRIILLED.

Well: NBU 922-18F1CS (GREEEN)	Spud Conductor: 5/29/2009	Spud Date: 6/24/2009
Project: UTAH-UINTAH	Site: NBU 922-18E PAD	Rig Name No: ELENBURG 12/12, H&P 298/298
Event: DRILLING	Start Date: 6/22/2009	End Date: 9/13/2009
Active Datum: RKB @4,920.00ft (above Mean Sea Level)	UWI: SW/NW/0/9/S/22/E/18/0/0/6/PM/N/1,914.00/W/0/420.00/0/0	

9/7/2009	0:00	- 6:00	6.00	DRLPRO	02	D	P	DRILL SLIDE & ROTATE F/4950' – T/ 5450' = 500' @ 83.3 FPH / H2O + POLYMER / WOB 16K-18K / TOP DRIVE RPM 35-40 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 1750/1500 PSI / MUD MOTOR RPM 109 / PU/SO/ROT WT 153/104/121 / TORQUE ON/OFF BOTTOM 9K/5K / SLIDE 55' IN 1.20 HRS =10% OF FOOTAGE DRILLED & 20% OF HRS DRIILLED.
	6:00	- 15:00	9.00	DRLPRO	02	D	P	DRILL SLIDE & ROTATE F/5450' – T/ 6203' = 753' @ 83.6 FPH / H2O + POLYMER / WOB 16K-18K / TOP DRIVE RPM 35-40 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 1750/1500 PSI / MUD MOTOR RPM 109 / PU/SO/ROT WT 153/104/121 / TORQUE ON/OFF BOTTOM 9K/5K / SLIDE 54' IN 1.25 HRS =7.1% OF FOOTAGE DRILLED & 13.8% OF HRS DRILLED.
	15:00	- 15:30	0.50	DRLPRO	07	A	P	RIG SERVICE,BOP DRILL
	15:30	- 0:00	8.50	DRLPRO	02	D	P	DRILL F/6203' – T/6994' = 791' @ 93.0 FPH / H2O + POLYMER / WOB 16K-20K / TOP DRIVE RPM 35-40 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2025/1750 PSI / MUD MOTOR RPM 109 / PU/SO/ROT WT 211/124/154 / TORQUE ON/OFF BOTTOM 13K/12K MUD WT 8.9 VIS 27
9/8/2009	0:00	- 4:30	4.50	DRLPRO	02	D	P	DRILL SLIDE & ROTATE F/6994' – T/ 7284' = 290' @ 64.4 FPH / / WOB 16K-20K / TOP DRIVE RPM 35-40 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2025/1725 PSI / MUD MOTOR RPM 109 / PU/SO/ROT WT 211/124/154 / TORQUE ON/OFF BOTTOM 13K/12K / SLIDE 35' IN 1.20 HRS =11% OF FOOTAGE DRILLED & 24% OF HRS DRILLED
	4:30	- 6:30	2.00	DRLPRO	22	L	Z	500 PSI PRESSURE LOSS,CHECK SURFACE EQUIP,TOH 6 STDS TO 6552', FOUND WASH OUT IN DP (SLIP AREA),REPLACE BAD JT, CHECK PRESSURE,TIH
	6:30	- 16:00	9.50	DRLPRO	02	D	P	DRILL SLIDE & ROTATE F/7284' – T/ 7531' = 247' @ 26 FPH / / WOB 16K-20K / TOP DRIVE RPM 35-40 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2025/1725 PSI / MUD MOTOR RPM 109 / PU/SO/ROT WT 235/130/163 / TORQUE ON/OFF BOTTOM 13K/10K / SLIDE 48' IN 3 HRS =19.4% OF FOOTAGE & 31% OF HRS DRILLED
	16:00	- 16:30	0.50	DRLPRO	07	A	P	RIG SERVICE
	16:30	- 0:00	7.50	DRLPRO	02	D	P	DRILL SLIDE & ROTATE F/7531' – T/ 7763' = 232' @30.9 FPH / / WOB 16K-20K / TOP DRIVE RPM 35-40 / PUMP 105 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2025/1785 PSI / MUD MOTOR RPM 109 / PU/SO/ROT WT 238/1130/167 / TORQUE ON/OFF BOTTOM 13K/12K / SLIDE 21' IN 1.10 HRS =11% OF FOOTAGE & 19% OF HRS
9/9/2009	0:00	- 6:00	6.00	DRLPRO	02	D	P	DRILL SLIDE & ROTATE F/7763' – T/ 7925' = 162' @27 FPH / / WOB 16K-22K / TOP DRIVE RPM 35-45 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2025/1785 PSI / MUD MOTOR RPM 109 / PU/SO/ROT WT 240/135/168 / TORQUE ON/OFF BOTTOM 13K/12K / SLIDE 20' IN 1.10 HRS =11% OF FOOTAGE & 19% OF HRS.

Well: NBU 922-18F1CS (GREEEN)	Spud Conductor: 5/29/2009	Spud Date: 6/24/2009	
Project: UTAH-UINTAH	Site: NBU 922-18E PAD		Rig Name No: ELENBURG 12/12, H&P 298/298
Event: DRILLING	Start Date: 6/22/2009		End Date: 9/13/2009
Active Datum: RKB @4,920.00ft (above Mean Sea Level)	UWI: SW/NW/0/9/S/22/E/18/0/0/6/PM/N/1,914.00/W/0/420.00/0/0		

	6:00	- 17:30	11.50	DRLPRO	02	D	P	DRILL F/7925' – T/ 8219' = 294' @25.6 FPH / / WOB 16K-22K / TOP DRIVE RPM 35-45 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2150/2150 PSI / MUD MOTOR RPM 109 / PU/SO/ROT WT 250/135/170 / TORQUE ON/OFF BOTTOM 15K/14K
	17:30	- 18:00	0.50	DRLPRO	07	A	P	RIG SERVICE ,WORK PIPE RAMS
	18:00	- 23:30	5.50	DRLPRO	02	D	P	DRILL F/7925' – T/ 8336' = 111@ 20.1 FPH / WOB 16K-24K / TOP DRIVE RPM 30-45 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2250/2150 PSI / MUD MOTOR RPM 109 / PU/SO/ROT WT 255/135/170 / TORQUE ON/OFF BOTTOM 15K/14K
	23:30	- 0:00	0.50	DRLPRO	06	A	P	TRIP F/ BIT #1/ STRAIGHT PULL OFF BTM 310K,PULL 5 STDS PUMP SLUG,TOH
9/10/2009	0:00	- 3:30	3.50	DRLPRO	06	A	P	TOH W/ BIT #1 ,,WORK THRU TIGHT SPOT @ 5250' PULLED 50 OVER,FLOW CHECK @ SHOE,TOH
	3:30	- 5:00	1.50	DRLPRO	06	A	P	FUNCT PIPE,BLIND& RAMS,BREAK BIT,L/D .22 M MTR,PU .16 MTR,W/ 1.50 BEND ,Q506F BIT,MWD & SURFACE TEST TOOLS
	5:00	- 6:00	1.00	DRLPRO	06	A	P	TIH W / BHA,INSTALL ROTATING HEAD,TIH TO CSG SHOE.BREAK CIRC.
	6:00	- 7:00	1.00	DRLPRO	09	A	P	CUT & SLIP 500' OF DRILL LINE
	7:00	- 9:30	2.50	DRLPRO	06	A	P	TIH ,CLEAN OUT TIGHT SPOTS @ 5252,8150
	9:30	- 10:00	0.50	DRLPRO	03	D	P	W & R 94' TO BTM 15' FILL
	10:00	- 17:30	7.50	DRLPRO	02	D	P	DRILL F/8336' – T/8680' =344'@ 45.8 FPH / WOB 16-18 / TOP DRIVE RPM 30-45 / PUMP 105 SPM = 475 GPM / PUMP PRESSURE ON/OFF BOTTOM 2500/2340 PSI / MUD MOTOR RPM 76 / PU/SO/ROT WT 275/125/178 / TORQUE ON/OFF BOTTOM 15K/14K
	17:30	- 18:00	0.50	DRLPRO	07	A	P	RIG SERVICE
	18:00	- 0:00	6.00	DRLPRO	02	D	P	DRILL(R&S) F/8336' – T/8680' =344'@ 45.8 FPH / WOB 16-18 / TOP DRIVE RPM 30-45 / PUMP 105 SPM = 475 GPM / PUMP PRESSURE ON/OFF BOTTOM 2500/2340 PSI / MUD MOTOR RPM 76 / PU/SO/ROT WT 275/125/178 / TORQUE ON/OFF BOTTOM 15K/14K ,SLIDE TIME1 HR 20 MIN =10% OF FOOTAGE,18% OF TIME
9/11/2009	0:00	- 6:00	6.00	DRLPRO	02	D	P	DRILL(R&S) F/8950' – T/9185' =235'@ 39.1 FPH / WOB 16-18 / TOP DRIVE RPM 30-45 / PUMP 105 SPM = 475 GPM / PUMP PRESSURE ON/OFF BOTTOM 2750/2530 PSI / MUD MOTOR RPM 76 / PU/SO/ROT WT 270/140/187/ TORQUE ON/OFF BOTTOM 15K/14K ,SLIDE TIME1 HR 20 MIN =10% OF FOOTAGE,18% OF TIME.
	6:00	- 17:30	11.50	DRLPRO	02	D	P	DRILL(R&S) F/9185' – T/9629' =444'@38.6 FPH / WOB 16-20 / TOP DRIVE RPM 30-45 / PUMP 100 SPM = 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 2650/2475 PSI / MUD MOTOR RPM 72 / PU/SO/ROT WT 270/140/187/ TORQUE ON/OFF BOTTOM 16K/15K ,SLIDE TIME1 HR 30 MIN =11.6% OF FOOTAGE,13% OF TIME.BYPASS SKAKERS @9210'MW 11.4 LCM 12% LOST 110 BBLS MUD
	17:30	- 18:00	0.50	DRLPRO	07	A	P	RIG SERVICE,BOP DRILL

Well: NBU 922-18F1CS (GREEEN)	Spud Conductor: 5/29/2009	Spud Date: 6/24/2009	
Project: UTAH-UINTAH	Site: NBU 922-18E PAD		Rig Name No: ELENBURG 12/12, H&P 298/298
Event: DRILLING	Start Date: 6/22/2009		End Date: 9/13/2009
Active Datum: RKB @4,920.00ft (above Mean Sea Level)	UWI: SW/NW/0/9/S/22/E/18/0/0/6/PM/N/1,914.00/W/0/420.00/0/0		

	18:00 - 0:00	6.00	DRLPRO	02	D	P	DRILL F/9629' – T/9800' =171'@28.5 FPH / WOB 18-22 / TOP DRIVE RPM 30-45 / PUMP 100 SPM = 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 2650/2475 PSI / MUD MOTOR RPM 72 / PU/SO/ROT WT 300/150/194/ TORQUE ON/OFF BOTTOM 16K/14K ,SLIDE TIME1 HR 45 MIN =20%OF FOOTAGE,29% OF TIME.LOST 80 BBLS MUD, MW 11.5 LCM 15%
9/12/2009	0:00 - 6:00	6.00	DRLPRO	02	D	P	DRILL F/9800' – T/9975' =175'@29.1FPH / WOB 18-22 / TOP DRIVE RPM 30-45 / PUMP 100 SPM = 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 2683/2520 PSI / MUD MOTOR RPM 72 / PU/SO/ROT WT 300/150/196/ TORQUE ON/OFF BOTTOM 16K/15K ,SLIDE TIME1 HR 30 MIN = 25'(.LOST 80 BBLS MUD, MW 11.5 LCM 15%
	6:00 - 11:30	5.50	DRLPRO	02	D	P	DRILL F/9997' – T/10160' TD=163'@29.6FPH / WOB 18-24 / TOP DRIVE RPM 30-45 / PUMP 100 SPM = 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 2683/2520 PSI / MUD MOTOR RPM 72 / PU/SO/ROT WT 300/150/196/ TORQUE ON/OFF BOTTOM 16K/15K MUD, MW 11.7 TD @ 11:30 9/12-09
	11:30 - 13:00	1.50	DRLPRO	05	C	P	CCH F/ WIPER TRIP,LOSING MUD LCM TO 20% (LOST 75 BBLS) MW 11.7
	13:00 - 16:30	3.50	DRLPRO	06	E	P	WIPER TRIP TO CSG SHOE TIGHT SPOTS 6735/ 6700 / 6650 / 6525
	16:30 - 17:00	0.50	DRLPRO	07	A	P	RIG SERVICE FLOW CHECK,BREAK CIRC
	17:00 - 20:00	3.00	DRLPRO	06	E	P	TIH,BREAK CIRC @ 6950,CIH TO 10,075, BREAK CIRC WASH TO BTM,
	20:00 - 21:30	1.50	DRLPRO	05	C	P	CCH, TRIP GAS 7031 UNITS 5' FLARE,HSM W/ WEATHERFORD TRS RU SAME.
	21:30 - 0:00	2.50	DRLPRO	06	B	P	LDDS,PUMP & ROTATE 8 STDS OFF BTM ,PUMP SLUG,POOH L/D DP
9/13/2009	0:00 - 8:00	8.00	DRLPRO	06	B	P	LDDS ,PULL ROTATING HEAD,L/D HWDP,DIRECTIONAL TOOLS,PULL WEAR BUSHING
	8:00 - 12:00	4.00	DRLPRO	11	E	P	HSM, RU HALLIBURTON RUN TRIPLE COMBO,LOGS STOPPED @ 6750',LOG OUT TO SURFACE,RDMO
	12:00 - 13:00	1.00	DRLPRO	12	A	P	HSM, RIG UP WEATHERFORD TRS
	13:00 - 20:00	7.00	DRLPRO	12	C	P	RUN 7 JTS P-110 11.6# LT&C ,1 JT OF P-110,11.6# LTC X/O TO BTC 4.5 CASING + 227 JTS I-80 #11.6 BTC 4.5 CASING + RELATED TOOLS / BREAKING CIRCULATION @ SELECTED INTERVALS /WASH JT DOWN @6735,6775,CIH, STOP @10,155 ' / INSTALL MANDREL & ROTATING RUBBER / RU TO CIRC CSG &,BREAK CIRC
	20:00 - 21:00	1.00	DRLPRO	05	D	P	CIRCULATE & CONDITION HOLE FOR CEMENT / R.D.M.O. CASING EQUIPMENT / RU B.J. CEMENTING EQUIPMENT HSM ,BTMS UP GAS 6920 UNITS W/ 5' FLARE

Well: NBU 922-18F1CS (GREEEN)	Spud Conductor: 5/29/2009	Spud Date: 6/24/2009
Project: UTAH-UINTAH	Site: NBU 922-18E PAD	Rig Name No: ELENBURG 12/12, H&P 298/298
Event: DRILLING	Start Date: 6/22/2009	End Date: 9/13/2009
Active Datum: RKB @4,920.00ft (above Mean Sea Level)	UWI: SW/NW/0/9/S/22/E/18/0/0/6/PM/N/1,914.00/W/0/420.00/0/0	

21:00	- 23:00	2.00	DRLPRO	12	E	P	TEST PUMPS & LINES TO 5000 PSI / PUMP 40 BBLS DYED H2O / PUMPED + 610 SX LEAD CEMENT @ 11.7 ppg (PREM LITE II + .05llbs/sx STATIC FREE + .25 pps CELLOFLAKE + 5 pps KOL SEAL + 8% bwoc BENTONITE + .2% bwoc SODIUM METASILICATE + 203 BBLS H2O / (14.24 gal/sx, 2.50 yield PUMP 1190 SX TAIL @ 14.3 ppg (CLS G 50/50 POZ + 10% SALT + .05llbs/sx STATIC FREE + .2% R3 + .002 GPS FP-6L + 2% BENTONITE + 167 BBLS H2O / (5.90 gal/sx, 1.31 yiel / DROP PLUG & DISPLACE W/ 157.2 BBLS H2O + ADDITIVES / LOST RETURNS AFTER 140 BBLS INTO DISPLACEMENT / LIFT PRESSURE @ 2600 PSI (CALC TOP OF TAIL @ 4000') / BUMP PLUG W/ 3200 PSI - HOLD 5 MINUTES W/ NO LOSS / W/ 1 BBL OF LEAD CMT TO SURFACE / FLOATS HELD W/ 2.0 BBLS BACK TO INVENTORY
23:00	- 23:30	0.50	DRLPRO	12	B	P	LAND CSG W / 75K,SHOE @ 10,156' FLOAT @ 10,112,L/D LANDING JT
23:30	- 0:00	0.50	DRLPRO	14	A	P	NIPPLE DOWN BOP,RIG RELEASED TO NBU 922-1832F2S @ 23:59 HRS 09/13/2009

Well: NBU 922-18F1CS (GREEEN)	Spud Conductor: 5/29/2009	Spud Date: 6/24/2009
Project: UTAH-UINTAH	Site: NBU 922-18E PAD	Rig Name No:
Event: COMPLETION	Start Date: 11/9/2009	End Date: 11/19/2009
Active Datum: RKB @4,920.00ft (above Mean Sea Level)	UWI: SW/NW/0/9/S/22/E/18/0/0/6/PM/N/1,914.00/W/0/420.00/0/0	

11/9/2009	-							
	7:00	- 18:00	11.00	COMP	36	B	P	STG 1)PU 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF F/ 10032'-36', 4 SPF, 16 HOLES. 10015'-17', 4 SPF, 8 HOLES. 9828'-32', 4 SPF, 16 HOLES. POOH. WHP 147 PSI, BRK 5182 PSI @ 6.4 BPM. ISIP 3007 PSI, FG .73. PUMP 100 BBLS @ 44 BPM @ 5700 PSI = 95% HOLES OPEN. MP 6692 PSI, MR 50 BPM, AP 4926 PSI, AR 39.6 BPM, ISIP 2960 PSI, FG .73, NPI 47 PSI. PMP 852 BBLS SW & 20,627 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 25,627 LBS, STG 2)PU 4 1/2 8K BAKER CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 9750' P/U PERF F/ 9718'-20', 4 SPF, 8 HOLES. 9700'-02', 4 SPF, 8 HOLES. 9622'-26', 3 SPF, 12 HOLES. 9548'-50', 4 SPF, 8 HOLES. 9480'-82', 4 SPF, 8 HOLES. POOH. WHP 2210 PSI, BRK 3348 PSI @ 6.4 BPM. ISIP 2523 PSI, FG .69. PUMP 100 BBLS @ 52.3 BPM @ 5138 PSI = 100% HOLES OPEN. PUMP 108,145# 30/50 WHITE NO 20/40 TLC. SCREEN OUT. LEFT 5,000# 30/40 WHITE IN FORMATION. OPEN WELL T/ PIT. FLOW BACK WELL FOR 15 MIN. REFLUSH WELL. SWI. SDFN.

Well: NBU 922-18F1CS (GREEEN)	Spud Conductor: 5/29/2009	Spud Date: 6/24/2009
Project: UTAH-UINTAH	Site: NBU 922-18E PAD	Rig Name No:
Event: COMPLETION	Start Date: 11/9/2009	End Date: 11/19/2009
Active Datum: RKB @4,920.00ft (above Mean Sea Level)	UWI: SW/NW/0/9/S/22/E/18/0/0/6/PM/N/1,914.00/W/0/420.00/0/0	

11/10/2009	7:00	- 17:00	10.00	COMP	36	B	P	STG 3)PU 4 1/2 8K BAKER CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE, 90 & 120 DEG PHASING. RIH SET CBP @ 9322' P/U PERF F/ 9288'-92', 4 SPF, 16 HOLES. 9254'-56', 4 SPF, 8 HOLES. 9188'-94', 3 SPF, 18 HOLES. POOH. WHP 1971 PSI, BRK 4853 PSI @ 6.4 BPM. ISIP 2320 PSI, FG .68. PUMP 100 BBLS @ 50.6 BPM @ 5061 PSI = 88% HOLES OPEN. MP 6253 PSI, MR 50.8 BPM, AP 4471 PSI, AR 46.1 BPM, ISIP 2316 PSI, FG .68, NPI 000 PSI. PMP 1418 BBLS SW & 52,191 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 57,191 LBS, STG 4)PU 4 1/2 8K BAKER CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE, 90 & 120 DEG PHASING. RIH SET CBP @ 9122' P/U PERF F/ 9090'-92', 4 SPF, 8 HOLES. 9032'-36', 3 SPF, 12 HOLES. 9010'-12', 4 SPF, 8 HOLES. 8962'-66', 3 SPF, 12 HOLES. POOH. WHP 1994 PSI, BRK 2640 PSI @ 6.4 BPM. ISIP 2121 PSI, FG .66. PUMP 100 BBLS @ 50.6 BPM @ 4700 PSI = 100% HOLES OPEN. MP 5391 PSI, MR 50.8 BPM, AP 4272 PSI, AR 45.8 BPM, ISIP 2450 PSI, FG .70, NPI 329 PSI. PMP 1146 BBLS SW & 40,264 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 45,264 LBS, STG 5)PU 4 1/2 8K BAKER CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 8826' P/U PERF F/ 8794'-96', 4 SPF, 8 HOLES. 8757'-60', 4 SPF, 12 HOLES. 8706'-08', 3 SPF, 6 HOLES. 8609'-12', 3 SPF, 9 HOLES. 8558'-60', 3 SPF, 6 HOLES. POOH. SWI, SDFN.
11/11/2009	6:30	- 7:00	0.50	COMP	48		P	HSM. SIM OPS.

Well: NBU 922-18F1CS (GREEEN)	Spud Conductor: 5/29/2009	Spud Date: 6/24/2009
Project: UTAH-UINTAH	Site: NBU 922-18E PAD	Rig Name No:
Event: COMPLETION	Start Date: 11/9/2009	End Date: 11/19/2009
Active Datum: RKB @4,920.00ft (above Mean Sea Level)	UWI: SW/NW/0/9/S/22/E/18/0/0/6/PM/N/1,914.00/W/0/420.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:00 - 17:00	10.00	COMP	36	B	P		STG 5)WHP 1815 PSI, BRK 3190 PSI @ 6.4 BPM. ISIP 2850 PSI, FG .76. PUMP 100 BBLS @ 50.5 BPM @ 4570 PSI = 100% HOLES OPEN. MP 6205 PSI, MR 51.7 BPM, AP 4446 PSI, AR 49 BPM, ISIP 2719 PSI, FG .74, NPI -131 PSI. PMP 4131 BBLS SW & 153,032 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 158,032 LBS, STG 6)PU 4 1/2 8K BAKER CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE, 90 & 120 DEG PHASING. RIH SET CBP @ 8340' P/U PERF F/ 8306'-10', 3 SPF, 12 HOLES. 8266'-68', 4 SPF, 8 HOLES. 8210'-12', 4 SPF, 8 HOLES. 8184'-86', 3 SPF, 6 HOLES. 8078'-80', 3 SPF, 6 HOLES. POOH. WHP 1020 PSI, BRK 2491 PSI @ 6.4 BPM. ISIP 1630 PSI, FG .63. PUMP 100 BBLS @ 50.6 BPM @ 4300 PSI = 83% HOLES OPEN. MP 4879 PSI, MR 51.8 BPM, AP 3971 PSI, AR 49.2 BPM, ISIP 2616 PSI, FG .75, NPI 986 PSI. PMP 2153 BBLS SW & 81,423 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 86,423 LBS, PU 4 1/2 8K BAKER CBP. RIH SET KILL PLUG @ 8028'. POOH. SWI.
11/12/2009	6:45 - 7:00	0.25	COMP	48		P		JSA-
	7:00 - 13:00	6.00	COMP	30	G	P		RDSU. ROAD RIG AND EQUIP FROM NBU 1022-10B PAD (MUDDY ROADS) TO LOCATION. RUSU. ND FRAC VALVES. NU BOP. RU FLOOR AND TBG EQUIP. SPOT TBG TRAILER
	13:00 - 18:00	5.00	COMP	31	I	P		MU 3-7/8" HURRICANE MILL, POBS, 1.87" XN AND RIH AS PMES AND PU 2-3/8" L-80 TBG. RIH W/ 250-JTS. SDFN W/ EOT AT 7827'.
11/13/2009	6:45 - 7:00	0.25	COMP	48		P		JSA- D/O PLUGS. LANDING HANGER.

Well: NBU 922-18F1CS (GREEEN)	Spud Conductor: 5/29/2009	Spud Date: 6/24/2009	
Project: UTAH-UINTAH	Site: NBU 922-18E PAD		Rig Name No:
Event: COMPLETION	Start Date: 11/9/2009		End Date: 11/19/2009
Active Datum: RKB @4,920.00ft (above Mean Sea Level)	UWI: SW/NW/0/9/S/22/E/18/0/0/6/PM/N/1,914.00/W/0/420.00/0/0		

	7:00 - 21:30	14.50	COMP	44	C	P	OPEN UP WELL. CONT PU JTS TO TAG SAND AT 8018' W/ 256-JTS IN. RU DRLG EQUIP. FLUSH LINES. MU PWR SWIVEL. FILL TBG. P-TEST TO 3000 PSI. GOOD. EST CIRC. D/O PLUGS. #1- C/O 10' SAND TO CBP AT 8028'. D/O IN 75 MIN. 250# INC. RIH. #2- C/O 24' SAND TO CBP AT 8340'. D/O IN 35 MIN. 300# INC. RIH. #3- C/O 29' SAND TO CBP AT 8826'. D/O IN 55 MIN. 200# INC. RIH. #4- C/O 27' SAND TO CBP AT 9122'. D/O IN 37 MIN. 50# INC. RIH. #5- C/O 34' SAND TO CBP AT 9322'. D/O IN 35 MIN. 50# INC. RIH. #6- C/O 30' SAND TO CBP AT 9750'. D/O IN MIN. # INC. RIH. PBTD- C/O ' SAND TO PBTD AT 10,084' W/ JTS IN (48' RATHOLE). CIRC CLEAN. RD PWR SWIVEL. POOH AS LD 21-JTS. PU 7-1/16" 5K HANGER. LUB IN AND LAND 301-JTS 2-3/8" L-80 TBG W/ EOT AT 9445.41'. RD FLOOR. ND BOP. DROP BALL. NU WH. HOOK UP FLOW LINES. PMP DOWN TBG AND RELEASE BIT SUB AT 1900#. SICP 2050#. SITP 700#. OPEN TBG- FCP 50#. TURN WELL OVER TO FLOW BACK CREW. SDFN. WILL RD IN AM. NOTE: HOLE HAS HIGH TURN AROUND DUE TO DEVIATION. 20-30K OVER PULL AS POOH. HIGH TORQUE AS D/O PLUGS. TBG DETAIL KB 26.00 BBL PMP 12,506 7-1/16" 5K HANGER 1.00 BBL RCVR 3721 301-JTS 2-3/8" L-80 T BG 9416.21 BBL LTR 8785 1.87" XN (FE) 2.20 329 JTS OUTBOUND EOT 9445.41 28 JTS INBOUND
11/16/2009	7:00 -			33	A		7 AM FLBK REPORT: CP 2650#, TP 1725#, 20/64" CK, 48 BWPH, TRACE SAND, LIGHT GAS TTL BBLS RECOVERED: 4302 BBLS LEFT TO RECOVER: 8204
11/17/2009	7:00 -			33	A		7 AM FLBK REPORT: CP 3175#, TP 1875#, 20/64" CK, 43 BWPH, TRACE SAND, MEDIUM GAS TTL BBLS RECOVERED: 5385 BBLS LEFT TO RECOVER: 7121
	10:00 -		PROD	50			WELL TURNED TO SALE @ 1000 HR ON 11/17/09 - FTP 1900#, CP 3125#, 1.9 MCFD, 43 BWPD, 20/64 CK
11/18/2009	7:00 -			33	A		7 AM FLBK REPORT: CP 2900#, TP 1800#, 20/64" CK, 32 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 6262 BBLS LEFT TO RECOVER: 6244
11/19/2009	7:00 -			33	A		7 AM FLBK REPORT: CP 2675#, TP 1700#, 20/64" CK, 23 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 5602 BBLS LEFT TO RECOVER: 642

Well: NBU 922-18F1CS (GREEEN)	Spud Conductor: 5/29/2009	Spud Date: 6/24/2009	
Project: UTAH-UINTAH	Site: NBU 922-18E PAD		Rig Name No:
Event: COMPLETION	Start Date: 11/9/2009		End Date: 11/19/2009
Active Datum: RKB @4,920.00ft (above Mean Sea Level)	UWI: SW/NW/0/9/S/22/E/18/0/0/6/PM/N/1,914.00/W/0/420.00/0/0		

	7:00	-		33	A		7 AM FLBK REPORT: CP 2850#, TP 1900#, 20/64" CK, 20 BWPH, TRACE SAND, 2743 GAS TTL BBLS RECOVERED: 7007 BBLS LEFT TO RECOVER: 5499
11/22/2009	7:00	-	PROD	50			WELL IP'D 11/22/09 - 2248 MCFD, 0 BOPD, 100 BWPD, CP 2850#, FTP 1900#, CK 20/64", LP 134#, 24 HRS

Anadarko
Petroleum Corporation

ANADARKO PETROLEUM CORP.

UINTAH COUNTY, UTAH (nad 27)
NBU 922-18E PAD
NBU 922-18F1CS

NBU 922-18F1CS

Survey: Survey #1

Standard Survey Report

14 September, 2009

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DIV. OF OIL, GAS & MINING

Weatherford®

Anadarko E&P Company LP

NBU 922-18F1CS
UINTAH COUNTY, UTAH (nad 27)
SECTION 18 T9S R22E
1915 'FNL 420' FWL(SL)
LAT: 40° 2' 16.894 N
LONG: 109° 29' 18.754 W
RIG: HP 298

Weatherford®

T M

Azimuths to True North
Magnetic North: 11.34°

Magnetic Field
Strength: 52539.6nT
Dip Angle: 65.97°
Date: 8/31/2009
Model: BGGM2009

WELL DETAILS: NBU 922-18F1CS

Ground Level: 4894.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	14543481.24	2063486.49	40° 2' 16.894 N	109° 29' 18.754 W	

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4814.00	5066.24	Top Wasatch:
7479.00	7735.41	Top Mesaverde:
8415.00	8671.41	MVU21:
8927.00	9183.41	MVL1:

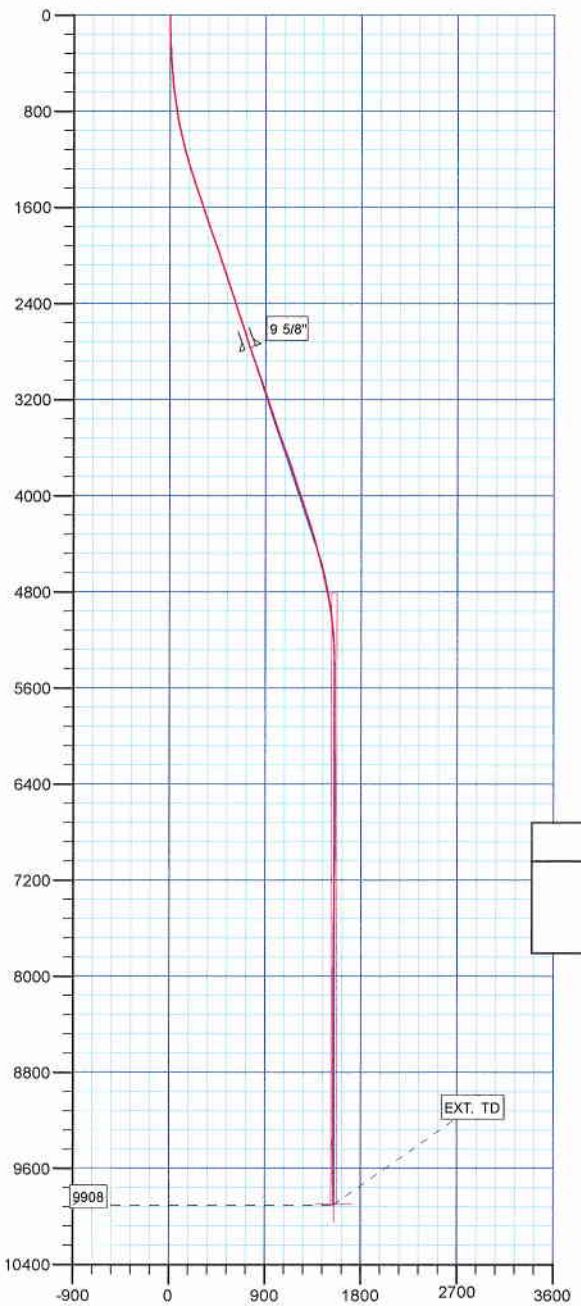
SECTION DETAILS

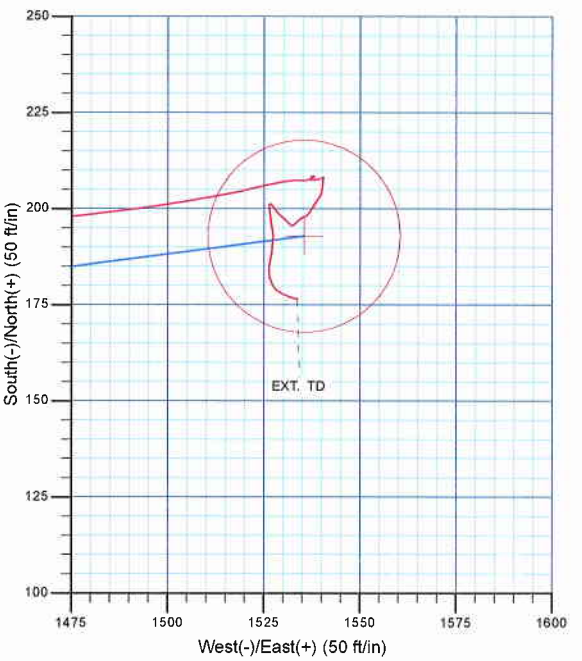
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
2859.00	20.53	80.42	2737.46	86.00	738.08	0.00	0.00	743.04	
3009.00	20.53	80.42	2877.93	94.75	789.95	0.00	0.00	795.60	
3045.97	20.59	82.52	2912.55	96.68	802.79	2.00	86.51	808.58	
4627.02	20.59	82.52	4392.63	169.06	1354.02	0.00	0.00	1364.53	
5656.41	0.00	0.00	5400.00	192.88	1535.42	2.00	180.00	1547.49	
10156.41	0.00	0.00	9900.00	192.88	1535.42	0.00	0.00	1547.49	PBHL_NBU 922-18F1CS

CASING DETAILS

TVD	MD	Name	Size
2768.36	2892.00	9 5/8"	9.62

KB ELEV: WELL @ 4920.00ft (Original Well Elev)
GRD ELEV: 4894.00





WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	9900.00	192.88	1535.42	14543700.15	2065018.41	40° 2' 18.800 N	109° 28' 59.010 W	Circle (Radius: 25.00)

Survey: Survey #1 (NBU 922-18F1CS/NBU 922-18F1CS)

Created By: Robert H. Scott

Anadarko Petroleum Corporation

Weatherford International Ltd.

Survey Report

Weatherford

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well NBU 922-18F1CS
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	WELL @ 4920.00ft (Original Well Elev)
Site:	NBU 922-18E PAD	**MD Reference:**	WELL @ 4920.00ft (Original Well Elev)
Well:	NBU 922-18F1CS	**North Reference:**	True
Wellbore:	NBU 922-18F1CS	**Survey Calculation Method:**	Minimum Curvature
Design:	NBU 922-18F1CS	**Database:**	EDM 2003.21 Single User Db

Project	UINTAH COUNTY, UTAH (nad 27),		
Map System:	Universal Transverse Mercator (US Survey Fee	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 922-18E PAD, SECTION 18 T9S R22E				
Site Position:		**Northing:**	14,543,514.70 ft	**Latitude:**	40° 2' 17.233 N
From:	Lat/Long	**Easting:**	2,063,436.85 ft	**Longitude:**	109° 29' 19.385 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	in	**Grid Convergence:**	0.97 °

Well	NBU 922-18F1CS					
Well Position	**+N/-S**	0.00 ft	**Northing:**	14,543,481.24 ft	**Latitude:**	40° 2' 16.894 N
	+E/-W	0.00 ft	**Easting:**	2,063,486.49 ft	**Longitude:**	109° 29' 18.754 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,894.00 ft

Wellbore NBU 922-18F1CS

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2009	8/31/2009	11.34	65.97	52,540

Design NBU 922-18F1CS

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	82.84

Survey Program **Date** 9/14/2009

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
101.00	10,165.00	Survey #1 (NBU 922-18F1CS)	MWD	MWD - Standard

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
101.00	1.34	79.02	100.99	0.22	1.16	1.18	1.33	1.33	0.00
196.00	1.67	91.15	195.96	0.41	3.63	3.66	0.48	0.35	12.77
288.00	3.15	83.48	287.87	0.67	7.49	7.51	1.64	1.61	-8.34
384.00	4.38	88.34	383.67	1.07	13.77	13.80	1.32	1.28	5.06
479.00	5.70	53.91	478.32	3.96	21.21	21.54	3.41	1.39	-36.24
575.00	6.97	86.51	573.76	7.12	30.88	31.53	3.91	1.32	33.96
670.00	8.42	90.04	667.90	7.47	43.59	44.18	1.60	1.53	3.72
765.00	9.95	93.54	761.68	6.96	58.74	59.15	1.71	1.61	3.68
859.00	11.38	90.86	854.06	6.32	76.12	76.31	1.61	1.52	-2.85
954.00	13.06	90.61	946.90	6.06	96.22	96.23	1.77	1.77	-0.26
1,050.00	14.81	88.86	1,040.07	6.19	119.34	119.18	1.87	1.82	-1.82
1,146.00	16.56	86.36	1,132.49	7.30	145.26	145.04	1.95	1.82	-2.60

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well NBU 922-18F1CS
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	WELL @ 4920.00ft (Original Well Elev)
Site:	NBU 922-18E PAD	**MD Reference:**	WELL @ 4920.00ft (Original Well Elev)
Well:	NBU 922-18F1CS	**North Reference:**	True
Wellbore:	NBU 922-18F1CS	**Survey Calculation Method:**	Minimum Curvature
Design:	NBU 922-18F1CS	**Database:**	EDM 2003.21 Single User Db

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)
1,241.00	18.94	85.74	1,222.97	9.31	174.15	173.95	2.51	2.51	-0.65
1,336.00	20.13	85.24	1,312.50	11.81	205.82	205.69	1.26	1.25	-0.53
1,431.00	20.31	83.99	1,401.64	14.89	238.51	238.50	0.49	0.19	-1.32
1,527.00	20.57	83.75	1,491.60	18.47	271.84	272.02	0.28	0.27	-0.25
1,621.00	20.75	82.36	1,579.55	22.49	304.76	305.19	0.56	0.19	-1.48
1,717.00	20.81	81.99	1,669.31	27.12	338.50	339.24	0.15	0.06	-0.39
1,812.00	20.91	80.72	1,758.08	32.21	371.94	373.06	0.49	0.11	-1.34
1,907.00	21.31	79.36	1,846.71	38.13	405.64	407.23	0.67	0.42	-1.43
2,002.00	20.81	81.74	1,935.36	43.74	439.31	441.33	1.04	-0.53	2.51
2,098.00	21.50	80.99	2,024.89	48.95	473.56	475.97	0.77	0.72	-0.78
2,193.00	21.00	82.49	2,113.43	53.90	507.63	510.39	0.78	-0.53	1.58
2,288.00	20.56	82.74	2,202.25	58.23	541.05	544.09	0.47	-0.46	0.26
2,383.00	20.69	82.24	2,291.16	62.60	574.23	577.55	0.23	0.14	-0.53
2,479.00	20.45	80.84	2,381.04	67.56	607.59	611.27	0.57	-0.25	-1.46
2,574.00	20.25	83.11	2,470.12	72.18	640.30	644.30	0.86	-0.21	2.39
2,669.00	20.25	82.61	2,559.24	76.26	672.92	677.18	0.18	0.00	-0.53
2,765.00	20.19	81.49	2,649.33	80.85	705.78	710.36	0.41	-0.06	-1.17
2,859.00	20.53	80.42	2,737.46	86.00	738.08	743.04	0.54	0.36	-1.14
2,936.00	20.34	79.89	2,809.61	90.59	764.57	769.90	0.34	-0.25	-0.69
3,031.00	20.75	79.43	2,898.57	96.58	797.36	803.18	0.46	0.43	-0.48
3,125.00	22.31	81.17	2,986.01	102.37	831.37	837.64	1.79	1.66	1.85
3,225.00	21.81	83.22	3,078.69	107.48	868.57	875.19	0.92	-0.50	2.05
3,313.00	20.36	83.09	3,160.79	111.25	900.00	906.85	1.65	-1.65	-0.15
3,407.00	20.69	82.00	3,248.83	115.53	932.68	939.81	0.54	0.35	-1.16
3,502.00	19.69	82.34	3,337.99	120.00	965.16	972.59	1.06	-1.05	0.36
3,597.00	20.88	82.59	3,427.09	124.32	997.81	1,005.52	1.26	1.25	0.26
3,692.00	22.75	81.47	3,515.29	129.22	1,032.77	1,040.82	2.02	1.97	-1.18
3,787.00	22.44	81.22	3,603.00	134.72	1,068.85	1,077.31	0.34	-0.33	-0.26
3,881.00	22.13	83.34	3,689.98	139.51	1,104.17	1,112.95	0.92	-0.33	2.26
3,976.00	20.39	80.48	3,778.51	144.32	1,138.27	1,147.38	2.13	-1.83	-3.01
4,070.00	19.94	77.97	3,866.75	150.37	1,170.09	1,179.71	1.04	-0.48	-2.67
4,165.00	19.63	82.47	3,956.15	155.84	1,201.76	1,211.81	1.64	-0.33	4.74
4,260.00	20.19	80.34	4,045.47	160.68	1,233.74	1,244.15	0.96	0.59	-2.24
4,356.00	21.13	83.47	4,135.30	165.43	1,267.27	1,278.00	1.51	0.98	3.26
4,450.00	20.68	79.11	4,223.11	170.49	1,300.40	1,311.51	1.72	-0.48	-4.64
4,545.00	18.31	79.84	4,312.66	176.29	1,331.57	1,343.16	2.51	-2.49	0.77
4,640.00	17.00	81.22	4,403.19	181.05	1,359.98	1,371.94	1.45	-1.38	1.45
4,735.00	17.31	82.09	4,493.96	185.11	1,387.70	1,399.96	0.42	0.33	0.92
4,830.00	16.19	81.97	4,584.93	188.91	1,414.82	1,427.33	1.18	-1.18	-0.13
4,924.00	13.13	77.84	4,675.86	192.99	1,438.24	1,451.08	3.44	-3.26	-4.39
5,018.00	14.00	84.09	4,767.24	196.41	1,459.99	1,473.08	1.81	0.93	6.65
5,113.00	11.50	83.59	4,859.89	198.65	1,480.83	1,494.04	2.63	-2.63	-0.53
5,207.00	9.00	81.34	4,952.38	200.80	1,497.41	1,510.76	2.69	-2.66	-2.39
5,301.00	7.88	79.72	5,045.36	203.06	1,511.02	1,524.55	1.22	-1.19	-1.72
5,396.00	5.25	76.59	5,139.73	205.23	1,521.66	1,535.37	2.79	-2.77	-3.29
5,491.00	4.15	78.60	5,234.41	206.92	1,529.26	1,543.12	1.17	-1.16	2.12
5,586.00	2.13	97.47	5,329.27	207.37	1,534.38	1,548.26	2.36	-2.13	19.86
5,681.00	1.63	60.34	5,424.22	207.80	1,537.30	1,551.22	1.36	-0.53	-39.08
5,775.00	0.70	275.20	5,518.21	208.52	1,537.89	1,551.89	2.38	-0.99	-154.40
5,870.00	0.31	200.34	5,613.21	208.33	1,537.23	1,551.20	0.72	-0.41	-78.80
5,965.00	0.31	195.09	5,708.20	207.84	1,537.07	1,550.99	0.03	0.00	-5.53
6,058.00	0.19	112.97	5,801.20	207.54	1,537.15	1,551.03	0.37	-0.13	-88.30
6,153.00	0.31	84.72	5,896.20	207.50	1,537.55	1,551.42	0.18	0.13	-29.74
6,248.00	0.25	89.97	5,991.20	207.52	1,538.01	1,551.88	0.07	-0.06	5.53

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well NBU 922-18F1CS
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	WELL @ 4920.00ft (Original Well Elev)
Site:	NBU 922-18E PAD	**MD Reference:**	WELL @ 4920.00ft (Original Well Elev)
Well:	NBU 922-18F1CS	**North Reference:**	True
Wellbore:	NBU 922-18F1CS	**Survey Calculation Method:**	Minimum Curvature
Design:	NBU 922-18F1CS	**Database:**	EDM 2003.21 Single User Db

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)
6,343.00	0.63	73.22	6,086.20	207.67	1,538.72	1,552.60	0.42	0.40	-17.63
6,438.00	0.35	88.09	6,181.20	207.83	1,539.51	1,553.41	0.32	-0.29	15.65
6,533.00	0.13	56.22	6,276.19	207.90	1,539.89	1,553.79	0.26	-0.23	-33.55
6,628.00	0.19	65.47	6,371.19	208.03	1,540.12	1,554.04	0.07	0.06	9.74
6,722.00	0.06	18.47	6,465.19	208.14	1,540.28	1,554.21	0.17	-0.14	-50.00
6,817.00	0.19	107.09	6,560.19	208.14	1,540.44	1,554.37	0.21	0.14	93.28
6,912.00	0.31	217.22	6,655.19	207.89	1,540.44	1,554.34	0.44	0.13	115.93
7,007.00	0.53	179.00	6,750.19	207.25	1,540.29	1,554.11	0.36	0.23	-40.23
7,102.00	1.00	189.47	6,845.18	205.99	1,540.16	1,553.83	0.51	0.49	11.02
7,197.00	0.94	182.22	6,940.17	204.39	1,540.00	1,553.46	0.14	-0.06	-7.63
7,292.00	1.63	220.09	7,035.15	202.58	1,539.10	1,552.34	1.11	0.73	39.86
7,386.00	2.06	207.72	7,129.10	200.06	1,537.45	1,550.40	0.62	0.46	-13.16
7,481.00	0.88	240.09	7,224.07	198.19	1,536.02	1,548.75	1.47	-1.24	34.07
7,576.00	0.61	251.23	7,319.06	197.66	1,534.91	1,547.58	0.32	-0.28	11.73
7,670.00	0.94	214.97	7,413.05	196.87	1,534.00	1,546.57	0.61	0.35	-38.57
7,765.00	1.13	242.34	7,508.03	195.79	1,532.72	1,545.17	0.55	0.20	28.81
7,859.00	1.13	327.97	7,602.02	196.15	1,531.41	1,543.91	1.63	0.00	91.10
7,954.00	1.00	307.09	7,697.01	197.44	1,530.25	1,542.92	0.43	-0.14	-21.98
8,049.00	0.88	310.34	7,791.99	198.42	1,529.03	1,541.84	0.14	-0.13	3.42
8,143.00	0.69	332.40	7,885.98	199.39	1,528.22	1,541.15	0.38	-0.20	23.47
8,236.00	0.44	316.59	7,978.98	200.14	1,527.71	1,540.75	0.31	-0.27	-17.00
8,334.00	0.56	321.97	8,076.98	200.79	1,527.16	1,540.28	0.13	0.12	5.49
8,428.00	0.25	285.59	8,170.97	201.21	1,526.68	1,539.85	0.41	-0.33	-38.70
8,523.00	0.25	208.09	8,265.97	201.08	1,526.38	1,539.54	0.33	0.00	-81.58
8,618.00	0.63	174.91	8,360.97	200.38	1,526.33	1,539.40	0.47	0.40	-34.93
8,713.00	0.81	170.84	8,455.96	199.20	1,526.48	1,539.41	0.20	0.19	-4.28
8,808.00	1.13	173.47	8,550.95	197.60	1,526.70	1,539.42	0.34	0.34	2.77
8,902.00	0.94	175.97	8,644.93	195.91	1,526.86	1,539.37	0.21	-0.20	2.66
8,997.00	1.06	163.97	8,739.92	194.29	1,527.15	1,539.46	0.25	0.13	-12.63
9,092.00	0.91	184.02	8,834.91	192.69	1,527.34	1,539.45	0.39	-0.16	21.11
9,187.00	0.81	184.72	8,929.89	191.27	1,527.24	1,539.17	0.11	-0.11	0.74
9,281.00	0.63	185.84	9,023.89	190.09	1,527.13	1,538.91	0.19	-0.19	1.19
9,376.00	0.88	184.09	9,118.88	188.85	1,527.02	1,538.65	0.26	0.26	-1.84
9,471.00	1.31	195.22	9,213.86	187.07	1,526.69	1,538.10	0.50	0.45	11.72
9,565.00	1.64	186.21	9,307.83	184.70	1,526.26	1,537.38	0.43	0.35	-9.59
9,660.00	1.25	166.59	9,402.80	182.34	1,526.35	1,537.18	0.66	-0.41	-20.65
9,754.00	1.38	155.09	9,496.78	180.31	1,527.07	1,537.63	0.31	0.14	-12.23
9,848.00	1.00	123.34	9,590.76	178.84	1,528.23	1,538.60	0.79	-0.40	-33.78
9,942.00	1.13	118.72	9,684.74	177.94	1,529.73	1,539.98	0.17	0.14	-4.91
10,037.00	0.94	111.09	9,779.72	177.21	1,531.28	1,541.42	0.25	-0.20	-8.03
10,115.00	1.23	103.07	9,857.71	176.79	1,532.69	1,542.77	0.42	0.37	-10.28
EXT. TD									
10,165.00	1.23	103.07	9,907.70	176.55	1,533.73	1,543.78	0.00	0.00	0.00

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
10,165.00	9,907.70	176.55	1,533.73	EXT. TD

Checked By: _____ Approved By: _____ Date: _____

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Anadarko
Petroleum Corporation

ANADARKO PETROLEUM CORP.

UINTAH COUNTY, UTAH (nad 27)
NBU 922-18E PAD
NBU 922-18F1CS

NBU 922-18F1CS

Survey: Survey #1

Survey Report - Geographic

14 September, 2009

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Weatherford®

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well NBU 922-18F1CS
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	WELL @ 4920.00ft (Original Well Elev)
Site:	NBU 922-18E PAD	**MD Reference:**	WELL @ 4920.00ft (Original Well Elev)
Well:	NBU 922-18F1CS	**North Reference:**	True
Wellbore:	NBU 922-18F1CS	**Survey Calculation Method:**	Minimum Curvature
Design:	NBU 922-18F1CS	**Database:**	EDM 2003.21 Single User Db

Project	UINTAH COUNTY, UTAH (nad 27),		
Map System:	Universal Transverse Mercator (US Survey Fee	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 922-18E PAD, SECTION 18 T9S R22E				
Site Position:		**Northing:**	14,543,514.70 ft	**Latitude:**	40° 2' 17.233 N
From:	Lat/Long	**Easting:**	2,063,436.85 ft	**Longitude:**	109° 29' 19.385 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	in	**Grid Convergence:**	0.97 °

Well	NBU 922-18F1CS					
Well Position	**+N/-S**	0.00 ft	**Northing:**	14,543,481.24 ft	**Latitude:**	40° 2' 16.894 N
	+E/-W	0.00 ft	**Easting:**	2,063,486.49 ft	**Longitude:**	109° 29' 18.754 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,894.00 ft

Wellbore NBU 922-18F1CS

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2009	8/31/2009	11.34	65.97	52,540

Design	NBU 922-18F1CS				
Audit Notes:					
Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	82.84

Survey Program **Date** 9/14/2009

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
101.00	10,165.00	Survey #1 (NBU 922-18F1CS)	MWD	MWD - Standard

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well NBU 922-18F1CS
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	WELL @ 4920.00ft (Original Well Elev)
Site:	NBU 922-18E PAD	**MD Reference:**	WELL @ 4920.00ft (Original Well Elev)
Well:	NBU 922-18F1CS	**North Reference:**	True
Wellbore:	NBU 922-18F1CS	**Survey Calculation Method:**	Minimum Curvature
Design:	NBU 922-18F1CS	**Database:**	EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,543,481.24	2,063,486.49	40° 2' 16.894 N	109° 29' 18.754 W
101.00	1.34	79.02	100.99	0.22	1.16	14,543,481.48	2,063,487.65	40° 2' 16.896 N	109° 29' 18.739 W
196.00	1.67	91.15	195.96	0.41	3.63	14,543,481.71	2,063,490.12	40° 2' 16.898 N	109° 29' 18.707 W
288.00	3.15	83.48	287.87	0.67	7.49	14,543,482.04	2,063,493.97	40° 2' 16.901 N	109° 29' 18.658 W
384.00	4.38	88.34	383.67	1.07	13.77	14,543,482.55	2,063,500.24	40° 2' 16.905 N	109° 29' 18.577 W
479.00	5.70	53.91	478.32	3.96	21.21	14,543,485.56	2,063,507.63	40° 2' 16.933 N	109° 29' 18.481 W
575.00	6.97	86.51	573.76	7.12	30.88	14,543,488.89	2,063,517.25	40° 2' 16.964 N	109° 29' 18.357 W
670.00	8.42	90.04	667.90	7.47	43.59	14,543,489.45	2,063,529.95	40° 2' 16.968 N	109° 29' 18.193 W
765.00	9.95	93.54	761.68	6.96	58.74	14,543,489.19	2,063,545.11	40° 2' 16.963 N	109° 29' 17.999 W
859.00	11.38	90.86	854.06	6.32	76.12	14,543,488.85	2,063,562.49	40° 2' 16.956 N	109° 29' 17.775 W
954.00	13.06	90.61	946.90	6.06	96.22	14,543,488.93	2,063,582.60	40° 2' 16.954 N	109° 29' 17.517 W
1,050.00	14.81	88.86	1,040.07	6.19	119.34	14,543,489.45	2,063,605.71	40° 2' 16.955 N	109° 29' 17.219 W
1,146.00	16.56	86.36	1,132.49	7.30	145.26	14,543,491.01	2,063,631.61	40° 2' 16.966 N	109° 29' 16.886 W
1,241.00	18.94	85.74	1,222.97	9.31	174.15	14,543,493.50	2,063,660.46	40° 2' 16.986 N	109° 29' 16.515 W
1,336.00	20.13	85.24	1,312.50	11.81	205.82	14,543,496.54	2,063,692.08	40° 2' 17.011 N	109° 29' 16.107 W
1,431.00	20.31	83.99	1,401.64	14.89	238.51	14,543,500.18	2,063,724.71	40° 2' 17.041 N	109° 29' 15.687 W
1,527.00	20.57	83.75	1,491.60	18.47	271.84	14,543,504.32	2,063,757.98	40° 2' 17.077 N	109° 29' 15.258 W
1,621.00	20.75	82.36	1,579.55	22.49	304.76	14,543,508.89	2,063,790.83	40° 2' 17.116 N	109° 29' 14.835 W
1,717.00	20.81	81.99	1,669.31	27.12	338.50	14,543,514.10	2,063,824.49	40° 2' 17.162 N	109° 29' 14.401 W
1,812.00	20.91	80.72	1,758.08	32.21	371.94	14,543,519.76	2,063,857.84	40° 2' 17.212 N	109° 29' 13.971 W
1,907.00	21.31	79.36	1,846.71	38.13	405.64	14,543,526.25	2,063,891.43	40° 2' 17.271 N	109° 29' 13.538 W
2,002.00	20.81	81.74	1,935.36	43.74	439.31	14,543,532.43	2,063,924.99	40° 2' 17.326 N	109° 29' 13.105 W
2,098.00	21.50	80.99	2,024.89	48.95	473.56	14,543,538.22	2,063,959.15	40° 2' 17.378 N	109° 29' 12.665 W
2,193.00	21.00	82.49	2,113.43	53.90	507.63	14,543,543.74	2,063,993.13	40° 2' 17.427 N	109° 29' 12.226 W
2,288.00	20.56	82.74	2,202.25	58.23	541.05	14,543,548.64	2,064,026.48	40° 2' 17.470 N	109° 29' 11.797 W
2,383.00	20.69	82.24	2,291.16	62.60	574.23	14,543,553.58	2,064,059.58	40° 2' 17.513 N	109° 29' 11.370 W
2,479.00	20.45	80.84	2,381.04	67.56	607.59	14,543,559.11	2,064,092.85	40° 2' 17.562 N	109° 29' 10.941 W
2,574.00	20.25	83.11	2,470.12	72.18	640.30	14,543,564.27	2,064,125.47	40° 2' 17.607 N	109° 29' 10.520 W
2,669.00	20.25	82.61	2,559.24	76.26	672.92	14,543,568.91	2,064,158.02	40° 2' 17.648 N	109° 29' 10.101 W
2,765.00	20.19	81.49	2,649.33	80.85	705.78	14,543,574.06	2,064,190.80	40° 2' 17.693 N	109° 29' 9.678 W
2,859.00	20.53	80.42	2,737.46	86.00	738.08	14,543,579.75	2,064,223.00	40° 2' 17.744 N	109° 29' 9.263 W
2,936.00	20.34	79.89	2,809.61	90.59	764.57	14,543,584.80	2,064,249.41	40° 2' 17.789 N	109° 29' 8.922 W
3,031.00	20.75	79.43	2,898.57	96.58	797.36	14,543,591.34	2,064,282.10	40° 2' 17.848 N	109° 29' 8.501 W
3,125.00	22.31	81.17	2,986.01	102.37	831.37	14,543,597.71	2,064,316.00	40° 2' 17.906 N	109° 29' 8.063 W
3,225.00	21.81	83.22	3,078.69	107.48	868.57	14,543,603.44	2,064,353.11	40° 2' 17.956 N	109° 29' 7.585 W
3,313.00	20.36	83.09	3,160.79	111.25	900.00	14,543,607.75	2,064,384.48	40° 2' 17.993 N	109° 29' 7.181 W
3,407.00	20.69	82.00	3,248.83	115.53	932.68	14,543,612.58	2,064,417.08	40° 2' 18.036 N	109° 29' 6.761 W
3,502.00	19.69	82.34	3,337.99	120.00	965.16	14,543,617.60	2,064,449.48	40° 2' 18.080 N	109° 29' 6.343 W
3,597.00	20.88	82.59	3,427.09	124.32	997.81	14,543,622.47	2,064,482.05	40° 2' 18.123 N	109° 29' 5.923 W
3,692.00	22.75	81.47	3,515.29	129.22	1,032.77	14,543,627.97	2,064,516.92	40° 2' 18.171 N	109° 29' 5.474 W
3,787.00	22.44	81.22	3,603.00	134.72	1,068.85	14,543,634.08	2,064,552.90	40° 2' 18.225 N	109° 29' 5.010 W
3,881.00	22.13	83.34	3,689.98	139.51	1,104.17	14,543,639.47	2,064,588.13	40° 2' 18.273 N	109° 29' 4.555 W
3,976.00	20.39	80.48	3,778.51	144.32	1,138.27	14,543,644.86	2,064,622.15	40° 2' 18.320 N	109° 29' 4.117 W
4,070.00	19.94	77.97	3,866.75	150.37	1,170.09	14,543,651.45	2,064,653.87	40° 2' 18.380 N	109° 29' 3.708 W
4,165.00	19.63	82.47	3,956.15	155.84	1,201.76	14,543,657.45	2,064,685.43	40° 2' 18.434 N	109° 29' 3.301 W
4,260.00	20.19	80.34	4,045.47	160.68	1,233.74	14,543,662.84	2,064,717.33	40° 2' 18.482 N	109° 29' 2.889 W
4,356.00	21.13	83.47	4,135.30	165.43	1,267.27	14,543,668.15	2,064,750.77	40° 2' 18.529 N	109° 29' 2.458 W
4,450.00	20.68	79.11	4,223.11	170.49	1,300.40	14,543,673.78	2,064,783.81	40° 2' 18.579 N	109° 29' 2.032 W
4,545.00	18.31	79.84	4,312.66	176.29	1,331.57	14,543,680.11	2,064,814.87	40° 2' 18.636 N	109° 29' 1.631 W
4,640.00	17.00	81.22	4,403.19	181.05	1,359.98	14,543,685.34	2,064,843.20	40° 2' 18.683 N	109° 29' 1.266 W
4,735.00	17.31	82.09	4,493.96	185.11	1,387.70	14,543,689.88	2,064,870.85	40° 2' 18.723 N	109° 29' 0.909 W
4,830.00	16.19	81.97	4,584.93	188.91	1,414.82	14,543,694.13	2,064,897.90	40° 2' 18.761 N	109° 29' 0.561 W
4,924.00	13.13	77.84	4,675.86	192.99	1,438.24	14,543,698.61	2,064,921.25	40° 2' 18.801 N	109° 29' 0.260 W
5,018.00	14.00	84.09	4,767.24	196.41	1,459.99	14,543,702.40	2,064,942.93	40° 2' 18.835 N	109° 28' 59.980 W
5,113.00	11.50	83.59	4,859.89	198.65	1,480.83	14,543,704.99	2,064,963.71	40° 2' 18.857 N	109° 28' 59.712 W

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well NBU 922-18F1CS
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	WELL @ 4920.00ft (Original Well Elev)
Site:	NBU 922-18E PAD	**MD Reference:**	WELL @ 4920.00ft (Original Well Elev)
Well:	NBU 922-18F1CS	**North Reference:**	True
Wellbore:	NBU 922-18F1CS	**Survey Calculation Method:**	Minimum Curvature
Design:	NBU 922-18F1CS	**Database:**	EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
5,207.00	9.00	81.34	4,952.38	200.80	1,497.41	14,543,707.43	2,064,980.28	40° 2' 18.878 N	109° 28' 59.499 W
5,301.00	7.88	79.72	5,045.36	203.06	1,511.02	14,543,709.91	2,064,993.85	40° 2' 18.901 N	109° 28' 59.324 W
5,396.00	5.25	76.59	5,139.73	205.23	1,521.66	14,543,712.26	2,065,004.45	40° 2' 18.922 N	109° 28' 59.187 W
5,491.00	4.15	78.60	5,234.41	206.92	1,529.26	14,543,714.08	2,065,012.02	40° 2' 18.939 N	109° 28' 59.089 W
5,586.00	2.13	97.47	5,329.27	207.37	1,534.38	14,543,714.62	2,065,017.13	40° 2' 18.943 N	109° 28' 59.023 W
5,681.00	1.63	60.34	5,424.22	207.80	1,537.30	14,543,715.11	2,065,020.05	40° 2' 18.948 N	109° 28' 58.986 W
5,775.00	0.70	275.20	5,518.21	208.52	1,537.89	14,543,715.83	2,065,020.62	40° 2' 18.955 N	109° 28' 58.978 W
5,870.00	0.31	200.34	5,613.21	208.33	1,537.23	14,543,715.63	2,065,019.96	40° 2' 18.953 N	109° 28' 58.987 W
5,965.00	0.31	195.09	5,708.20	207.84	1,537.07	14,543,715.14	2,065,019.81	40° 2' 18.948 N	109° 28' 58.989 W
6,058.00	0.19	112.97	5,801.20	207.54	1,537.15	14,543,714.84	2,065,019.89	40° 2' 18.945 N	109° 28' 58.988 W
6,153.00	0.31	84.72	5,896.20	207.50	1,537.55	14,543,714.80	2,065,020.29	40° 2' 18.945 N	109° 28' 58.983 W
6,248.00	0.25	89.97	5,991.20	207.52	1,538.01	14,543,714.84	2,065,020.76	40° 2' 18.945 N	109° 28' 58.977 W
6,343.00	0.63	73.22	6,086.20	207.67	1,538.72	14,543,715.00	2,065,021.46	40° 2' 18.946 N	109° 28' 58.968 W
6,438.00	0.35	88.09	6,181.20	207.83	1,539.51	14,543,715.17	2,065,022.25	40° 2' 18.948 N	109° 28' 58.957 W
6,533.00	0.13	56.22	6,276.19	207.90	1,539.89	14,543,715.25	2,065,022.63	40° 2' 18.949 N	109° 28' 58.953 W
6,628.00	0.19	65.47	6,371.19	208.03	1,540.12	14,543,715.38	2,065,022.86	40° 2' 18.950 N	109° 28' 58.950 W
6,722.00	0.06	18.47	6,465.19	208.14	1,540.28	14,543,715.49	2,065,023.01	40° 2' 18.951 N	109° 28' 58.948 W
6,817.00	0.19	107.09	6,560.19	208.14	1,540.44	14,543,715.50	2,065,023.18	40° 2' 18.951 N	109° 28' 58.945 W
6,912.00	0.31	217.22	6,655.19	207.89	1,540.44	14,543,715.25	2,065,023.18	40° 2' 18.948 N	109° 28' 58.945 W
7,007.00	0.53	179.00	6,750.19	207.25	1,540.29	14,543,714.60	2,065,023.04	40° 2' 18.942 N	109° 28' 58.947 W
7,102.00	1.00	189.47	6,845.18	205.99	1,540.16	14,543,713.34	2,065,022.93	40° 2' 18.930 N	109° 28' 58.949 W
7,197.00	0.94	182.22	6,940.17	204.39	1,540.00	14,543,711.74	2,065,022.80	40° 2' 18.914 N	109° 28' 58.951 W
7,292.00	1.63	220.09	7,035.15	202.58	1,539.10	14,543,709.91	2,065,021.93	40° 2' 18.896 N	109° 28' 58.963 W
7,386.00	2.06	207.72	7,129.10	200.06	1,537.45	14,543,707.37	2,065,020.32	40° 2' 18.871 N	109° 28' 58.984 W
7,481.00	0.88	240.09	7,224.07	198.19	1,536.02	14,543,705.47	2,065,018.93	40° 2' 18.853 N	109° 28' 59.002 W
7,576.00	0.61	251.23	7,319.06	197.66	1,534.91	14,543,704.92	2,065,017.83	40° 2' 18.847 N	109° 28' 59.017 W
7,670.00	0.94	214.97	7,413.05	196.87	1,534.00	14,543,704.11	2,065,016.92	40° 2' 18.839 N	109° 28' 59.028 W
7,765.00	1.13	242.34	7,508.03	195.79	1,532.72	14,543,703.02	2,065,015.67	40° 2' 18.829 N	109° 28' 59.045 W
7,859.00	1.13	327.97	7,602.02	196.15	1,531.41	14,543,703.35	2,065,014.35	40° 2' 18.832 N	109° 28' 59.062 W
7,954.00	1.00	307.09	7,697.01	197.44	1,530.25	14,543,704.63	2,065,013.17	40° 2' 18.845 N	109° 28' 59.076 W
8,049.00	0.88	310.34	7,791.99	198.42	1,529.03	14,543,705.58	2,065,011.93	40° 2' 18.855 N	109° 28' 59.092 W
8,143.00	0.69	332.40	7,885.98	199.39	1,528.22	14,543,706.53	2,065,011.10	40° 2' 18.864 N	109° 28' 59.103 W
8,236.00	0.44	316.59	7,978.98	200.14	1,527.71	14,543,707.28	2,065,010.59	40° 2' 18.872 N	109° 28' 59.109 W
8,334.00	0.56	321.97	8,076.98	200.79	1,527.16	14,543,707.92	2,065,010.02	40° 2' 18.878 N	109° 28' 59.116 W
8,428.00	0.25	285.59	8,170.97	201.21	1,526.68	14,543,708.33	2,065,009.54	40° 2' 18.882 N	109° 28' 59.122 W
8,523.00	0.25	208.09	8,265.97	201.08	1,526.38	14,543,708.20	2,065,009.24	40° 2' 18.881 N	109° 28' 59.126 W
8,618.00	0.63	174.91	8,360.97	200.38	1,526.33	14,543,707.49	2,065,009.20	40° 2' 18.874 N	109° 28' 59.127 W
8,713.00	0.81	170.84	8,455.96	199.20	1,526.48	14,543,706.31	2,065,009.37	40° 2' 18.862 N	109° 28' 59.125 W
8,808.00	1.13	173.47	8,550.95	197.60	1,526.70	14,543,704.72	2,065,009.61	40° 2' 18.847 N	109° 28' 59.122 W
8,902.00	0.94	175.97	8,644.93	195.91	1,526.86	14,543,703.04	2,065,009.80	40° 2' 18.830 N	109° 28' 59.120 W
8,997.00	1.06	163.97	8,739.92	194.29	1,527.15	14,543,701.42	2,065,010.13	40° 2' 18.814 N	109° 28' 59.116 W
9,092.00	0.91	184.02	8,834.91	192.69	1,527.34	14,543,699.83	2,065,010.34	40° 2' 18.798 N	109° 28' 59.114 W
9,187.00	0.81	184.72	8,929.89	191.27	1,527.24	14,543,698.40	2,065,010.26	40° 2' 18.784 N	109° 28' 59.115 W
9,281.00	0.63	185.84	9,023.89	190.09	1,527.13	14,543,697.23	2,065,010.17	40° 2' 18.773 N	109° 28' 59.117 W
9,376.00	0.88	184.09	9,118.88	188.85	1,527.02	14,543,695.98	2,065,010.09	40° 2' 18.760 N	109° 28' 59.118 W
9,471.00	1.31	195.22	9,213.86	187.07	1,526.69	14,543,694.20	2,065,009.78	40° 2' 18.743 N	109° 28' 59.122 W
9,565.00	1.64	186.21	9,307.83	184.70	1,526.26	14,543,691.81	2,065,009.40	40° 2' 18.719 N	109° 28' 59.128 W
9,660.00	1.25	166.59	9,402.80	182.34	1,526.35	14,543,689.46	2,065,009.53	40° 2' 18.696 N	109° 28' 59.127 W
9,754.00	1.38	155.09	9,496.78	180.31	1,527.07	14,543,687.45	2,065,010.28	40° 2' 18.676 N	109° 28' 59.117 W
9,848.00	1.00	123.34	9,590.76	178.84	1,528.23	14,543,685.99	2,065,011.46	40° 2' 18.661 N	109° 28' 59.102 W
9,942.00	1.13	118.72	9,684.74	177.94	1,529.73	14,543,685.12	2,065,012.98	40° 2' 18.652 N	109° 28' 59.083 W
10,037.00	0.94	111.09	9,779.72	177.21	1,531.28	14,543,684.41	2,065,014.54	40° 2' 18.645 N	109° 28' 59.063 W
10,115.00	1.23	103.07	9,857.71	176.79	1,532.69	14,543,684.02	2,065,015.96	40° 2' 18.641 N	109° 28' 59.045 W
EXT. TD									
10,165.00	1.23	103.07	9,907.70	176.55	1,533.73	14,543,683.79	2,065,017.01	40° 2' 18.639 N	109° 28' 59.032 W

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well NBU 922-18F1CS
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	WELL @ 4920.00ft (Original Well Elev)
Site:	NBU 922-18E PAD	**MD Reference:**	WELL @ 4920.00ft (Original Well Elev)
Well:	NBU 922-18F1CS	**North Reference:**	True
Wellbore:	NBU 922-18F1CS	**Survey Calculation Method:**	Minimum Curvature
Design:	NBU 922-18F1CS	**Database:**	EDM 2003.21 Single User Db

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
10,165.00	9,907.70	176.55	1,533.73	EXT. TD

Checked By: _____ Approved By: _____ Date: _____

RECEIVED
DEC 21 2009
DIV. OF OIL, GAS & MINING

Federal Approval of this Action is Necessary

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0359

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: UTE

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 922-18F1CS

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

9. API NUMBER: 43047398380000

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: 1914 FNL 0420 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 18 Township: 09.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 6/28/2011	☐ ACIDIZE	☐ ALTER CASING	✓ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Wellhead Repair

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

The operator requests approval to conduct wellhead/casing repair operations on the subject well location. Please find the attached procedure for the proposed repair work on the subject well location.

Accepted by the Utah Division of Oil, Gas and Mining

Date: 07/11/2011

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Gina Becker	720 929-6086	Regulatory Analyst II
SIGNATURE N/A		**DATE** 6/28/2011

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WORKORDER #:

Name: NBU 922-18F1CS – [922-18E PAD] 6/16/2011
Surface Location: SWNW Sec. 18, T9S, R22E
Uintah County, UT

API: 4304739838 **LEASE#:** UTU-461

ELEVATIONS: 4894' GL 4920' KB

TOTAL DEPTH: 10,165' **PBTD:** 10,111'

SURFACE CASING: 9 5/8", 36# J-55 @ 2907'

PRODUCTION CASING: 4 1/2", 11.6#, I-80 @ 10,157'
TOC @ 678' per CBL

PERFORATIONS: Mesaverde 8078' – 10,036'

Tubular/Borehole	Drift inches	Collapse psi	Burst psi	Capacities		
				Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" 4.7# J-55 tbg.	1.901	8100	7700	0.1624	0.02171	0.00387
4.5" 11.6# I-80	3.875	6350	7780	0.6528	0.0872	0.0155
9.625" 36# J-55	8.921	2020	3520	3.247	0.434	0.0773
Annular Capacities						
2.375" tbg. X 4 ½" 11.6# csg				0.4227	0.0565	0.01

GEOLOGICAL TOPS:

1809' Green River
2452' Mahogany
5337' Wasatch
8048' Mesaverde

RECEIVED Jun. 28, 2011

NBU 922-18F1CS– WELLHEAD REPAIR PROCEDURE

PREP-WORK PRIOR TO MIRU:

1. Dig out down to the 2" surface casing valve or to the valve on the riser off the surface casing.
2. Install a tee with 2 valves, with a pressure gauge and sensor on one valve.
3. Open casing valve and record pressures.
4. Install nipple and steel hose on the other valve, the relief valve,. Do not use hammer unions. No impact equipment or tools to be used for any of this installation. Extend hose and hard piping to a downwind location at least 100' from the wellhead. Consider installing a manifold so that vent area could be in two locations approx. 90 degrees apart from the wellhead.
5. Open the relief valve and blow well down to the atmosphere.
6. Make a determination of amount of gas flow, either by installation of a choke nipple, bucket test or other.
7. Shut well in. Observe for rate of build-up by utilizing sensor data. Do not build-up for more than 24 hours. Vent gas through the vent line and leave open to the atmosphere.

WORKOVER PROCEDURE:

1. MIRU workover rig.
2. Kill well with 10# brine / KCL (dictated by well pressure).
3. Remove tree, install double BOP with blind and 2 3/8" pipe rams, with accumulator closing unit and manual back-ups. Function test BOP system.
4. POOH w/ tubing laying down extra tubing.
5. Rig up wireline service. RIH and set CBP @ ~8028'. Dump bail 4 sx cement on top of plug. POOH and RD wireline service. TIH w/ tubing and seating nipple. Land tubing ±60' above cement. RDMO.
6. Monitor well pressures. If surface casing is dead. MIRU. ND WH and NU BOP. POOH w/ tubing.
7. Depending on conditions at wellsite, continue with either CUT/PATCH Procedure or BACK-OFF Procedure.

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CUT/PATCH PROCEDURE:

1. PU internal casing cutters and RIH. Cut casing at +/- 30' from surface.

2. POOH, LD cutters and casing.

3. PU 7 3/8" overshot with 4 ½" right hand standard wicker grapple, 1 - 4 ¾" drill collar with 3 ½" IF threads, pup joint, manual bumper sub, and crossovers. If casing cut is deeper than ±30' utilize >7000 ft-lb torque pipe as needed. Pull a minimum of 10,000# to keep grapple engaged if cement top is high (<~900'). If cement top is low (>~900'), more weight will be required to put casing in neutral. Torque casing string to ±7000 ft-lbs, count number of turns to make-up, and document in the daily report. Ensure that tongs are safely anchored to rig and that all personnel are at a safe working distance from the tongs during torque-up and torque release. After initial make-up, place pipe torque to neutral and mark pipe. Place ±7000 ft-lbs on casing a second time, count turns, then return pipe torque to neutral and count turns. Repeat if torque-up turns do not equal torque release turns. Once torque-in equals torque-out, release overshot, POOH, and lay down.

4. TIH w/ skirted mill and dress off the fish top for approximately ½ hour. TOOH.

5. PU & RIH w/ 4 ½" 10k external casing patch on 4 ½" P-110 casing. Ensure that sliding sleeve assembly shifts ±3' and casing tags no-go portion of patch. NOTE: Shear pins will shear at 3500 to 4500 lbs.

6. Latch fish, PU to 100,000# tension. RU B&C. Cycle pressure test to 3500 psi.

7. Install slips. Land casing w/ 80,000# tension.

8. Cut-off and dress 4 ½" casing stub.

9. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~7978'. Clean out to PBTD (10,111').

10. POOH, land tbg and pump off POBS.

11. NUWH, RDMO. Turn well over to production ops.

BACK-OFF PROCEDURE:

1. PU internal casing cutters and RIH. Cut casing at +/- 6' from surface.

2. POOH, LD cutters and casing.

3. PU 4 ½" overshot. RIH, latch fish. Pick string weight to neutral.

4. MIRU casing crew and wireline services. RIH and shoot string shot at casing collar @ ± 46'.

5. Back-off casing, POOH.

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6. PU new casing joint with buttress threads and entry guide and RIH. Tag casing top. Thread into casing and torque up to ±7000 ft-lbs, count number of additional turns to make-up, and document in the daily report. Ensure that tongs are safely anchored to rig and that all personnel are at a safe working distance from the tongs during torque-up and torque release. After initial make-up, place pipe torque to neutral and mark pipe. Place ±7000 ft-lbs on casing a second time, count turns, then return pipe torque to neutral and count turns. Repeat if torque-up turns do not equal torque release turns. Once torque-in equals torque-out go to step 7.

7. PU 100,000# tension string weight. RU B&C. Cycle pressure test to 3500 psi.

8. Install slips. Land casing w/ 80,000# tension.

9. Cut-off and dress 4 ½" casing stub.

10. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~7978'. Clean out to PBTD (10,111').

11. POOH, land tbg and pump off POBS.

12. NUWH, RDMO. Turn well over to production ops.

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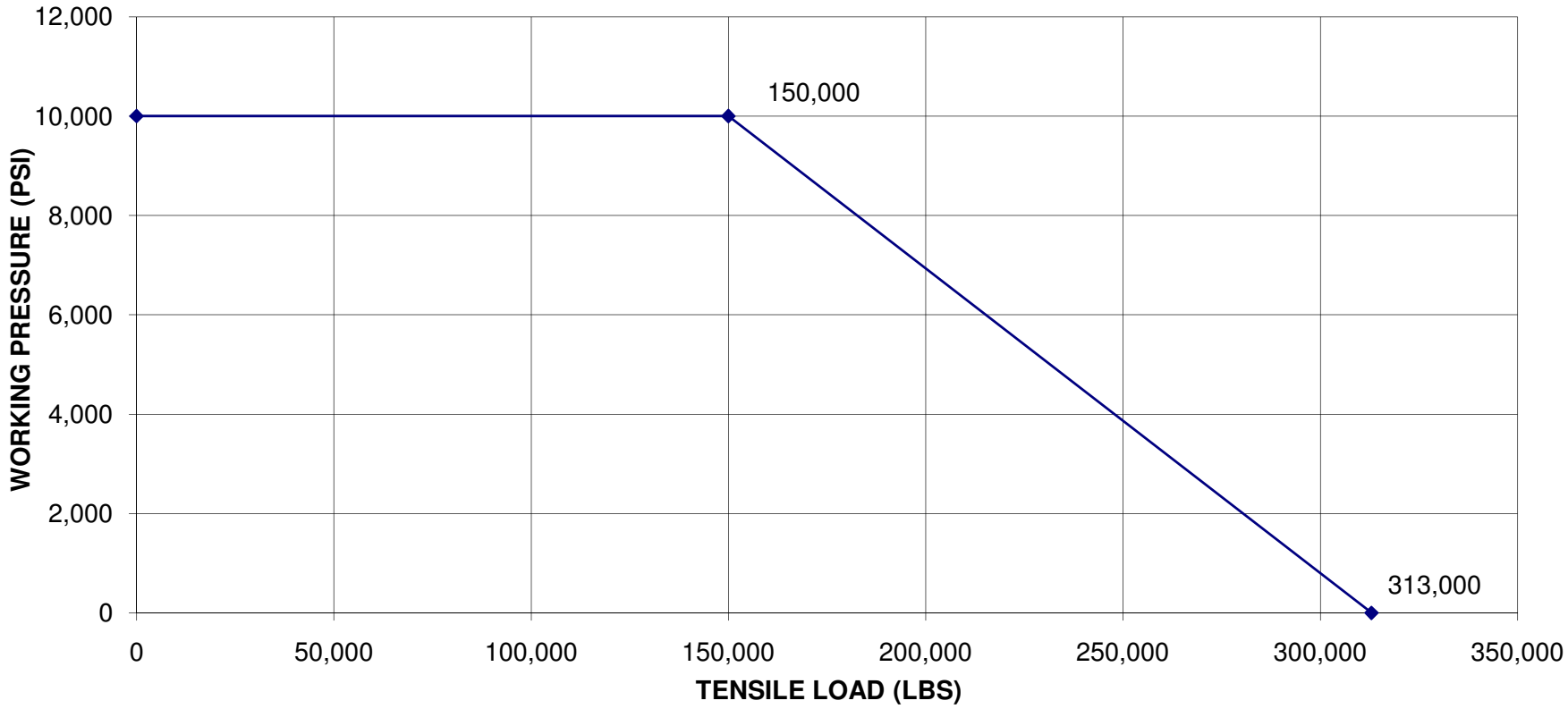
STRENGTH DATA FOR LOGAN 5.88" OD "L" TYPE CSG PATCH
4-1/2 CASING, 10K PSI MAX WP 125K YIELD MAT'L
LOGAN ASSEMBLY NO. 510L-005 -000



COLLAPSE PRESSURE:
11,222 PSI @ 0 TENSILE
8,634 PSI @ 220K TENSILE

Tensile Strength @ Yield:
Tensile Strength w/ 0 Int. Press.= 472,791lbs.
Tensile Strength w/ 10K Int. Press.= 313,748lbs.

DATA BY SLS 11/16/2009

Logan High Pressure Casing Patches
Assembly Procedure

All parts should be thoroughly greased before being assembled.

1. Install all four Logan Type “L” Packers in the spaces provided in the Casing Patch Bowl. Refer to diagram provided for proper installation.

2. Install Packer Protector from the Basket Grapple end of the Bowl. The beveled end of the Packer Protector goes in first. Carefully push the Packer Protector through the four Type “L” Packers.

3. Align Shear Pin Holes in Packer Protector so that the holes have just passed into the counter bore at the Top Sub end, refer to diagram. The Packer Protector is provided with four Shear Pin Holes. Use only two holes, 180 degrees apart and install the pins.

4. Screw the Basket Grapple in from the lower end of the Bowl, using left-hand rotation. The Tang Slot in the Basket Grapple must land in line with the slot in the Bowl.

5. Insert the Basket Grapple Control into the end of the Bowl. Align Tang on the Basket Grapple Control with the Tang Slot of the Bowl and Basket Grapple. This secures the Bowl and the Basket Grapple together.

6. Install the Cutlipped Guide into the lower end of the Bowl.

7. Install O-Rings on the two five-foot long Extensions. Screw the first Extension into the top end of the Bowl. Screw the second Extension into the top end of the first Extension.

8. Install O-Ring on Top Sub. Screw Top Sub into top end of second Extension.

Follow recommended Make-Up Torque as provided in chart.

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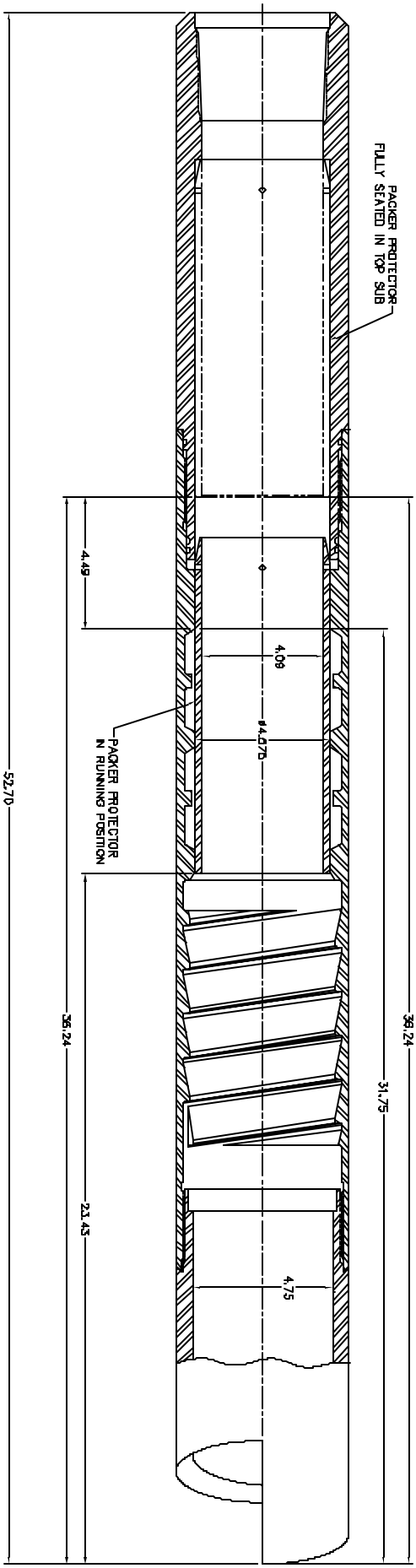

510L-005-001 4-1/2" LOGAN HP CASING PATCH

RECEIVED Jun. 28, 2011

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-0359

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 922-18F1CS

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

9. API NUMBER: 43047398380000

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

PHONE NUMBER: 720 929-6515

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1914 FNL 0420 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 18 Township: 09.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☑ CASING REPAIR
☑ SUBSEQUENT REPORT Date of Work Completion: 10/19/2011	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

The operator has concluded the wellhead/casing repairs on the subject well location. Please see the attached chronological history for details of the operations.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
July 26, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst
SIGNATURE N/A		**DATE** 7/17/2012

RECEIVED: Jul. 17, 2012

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-18F1CS (GREEEN)	Spud Conductor: 5/29/2009	Spud Date: 6/24/2009
Project: UTAH-UINTAH	Site: NBU 922-18E PAD	Rig Name No: SWABBCO 6/6
Event: WELL WORK EXPENSE	Start Date: 10/17/2011	End Date: 10/19/2011
Active Datum: RKB @4,920.00usft (above Mean Sea Level)	UWI: SW/NW/0/9/S/22/E/18/0/0/6/PM/N/1,914.00/W/0/420.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
10/17/2011	7:00 - 7:15	0.25	WO/REP	48		P		JSA= WELL CONTROL
	7:15 - 7:15	0.00	WO/REP	30		P		RD RIG MOVE TO LOC RU RIG & PUMP, PUMP 20 BBLS TMAC DWN TUB ND WELLHEAD NU BOPS RU FLOOR & TUBING EQUIP PUMP 20 BBLS DWN CSG UNLAND TUBING LD HNGR POOH W/ 300 JNTS 2-3/8" L-80 TUBING LD BHA RU W/L RIH W/ GUAGE RNG PU 10K CIBP RIH SET @ 8020' DUMP BAIL 2 SKS CEM ON PLG FILL HOLE W/ TMAC PRESS TEST PLG TO 500# SIW PREP TO REPAIR W/H IN AM SDFN
10/18/2011	7:00 - 7:15	0.25	WO/REP	48		P		JSA= W/L SAFETY
	7:15 - 17:00	9.75	WO/REP	30		P		SIWP= 0 PSI ND BOPS PU INT CUTTET RIH CUT CSG BELOW HNGR ND W/H DROP PLUMB BOB NO TAG PU OVERSHOT RIH B/O CSG PUP POOH LD TOOLS PU NEW 10' PUP RIH THREAD ONTO CSG TORQUE TO 7000# 29 RNDS NU TESTER PRESS TEST TO 3500# NU WELLHEAD & BOPS RU FLOOR & TUBING EQUIP PU 3-7/8 BIT RIH TAG TOC @ 8010' PREP TO D/O IN AM SIW SDFN
10/19/2011	7:00 - 7:15	0.25	WO/REP	48		P		N2 FOAMING SAFETY
	7:15 - 17:00	9.75	WO/REP	30		P		0 PSI SIWP, NU FOAMER EST CIRC C/O & DRILL THRU CEM & CIBP @ 8020' 0 INCREASE, CIRC CLEAN CONTINUE TO RIH TAG @ 10009' EST CIRC C/O & DRILL TO 10071' CIRC CLEAN PUH LD 21 JNTS LAND TUBING ON HNGR W/ 300 JNTS EOT @ 9435.95' PUMP OFF BIT @ PSI PU RIH W/ BROACH TO XN NPL POOH RD FLOOR & TUBING EQUIP ND BOPS NU WELLHEAD SIW RD RIG MOVE TO 18F1BS SPOT IN RIG SDFN.

RECEIVED: Jul. 17, 2012