Form 3160-3
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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 922-18K2

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

9. API Well No.
43-047-39791

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 **NE/SW 2519'FSL, 1265'FWL** 629227 X 40.035651
At proposed prod. Zone 4432603 Y -109.485369

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*
27.95 +/- 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)
1265'

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
9830'

20. BLM/BIA Bond No. on file
RLB0005239

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
4899'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: **11/7/2007**
Title: **SENIOR LAND ADMIN SPECIALIST**

Approved by *(Signature)*: Bradley G. Hill
Name *(Printed/Typed)*: **BRADLEY G. HILL**
Date: 11-19-07
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.

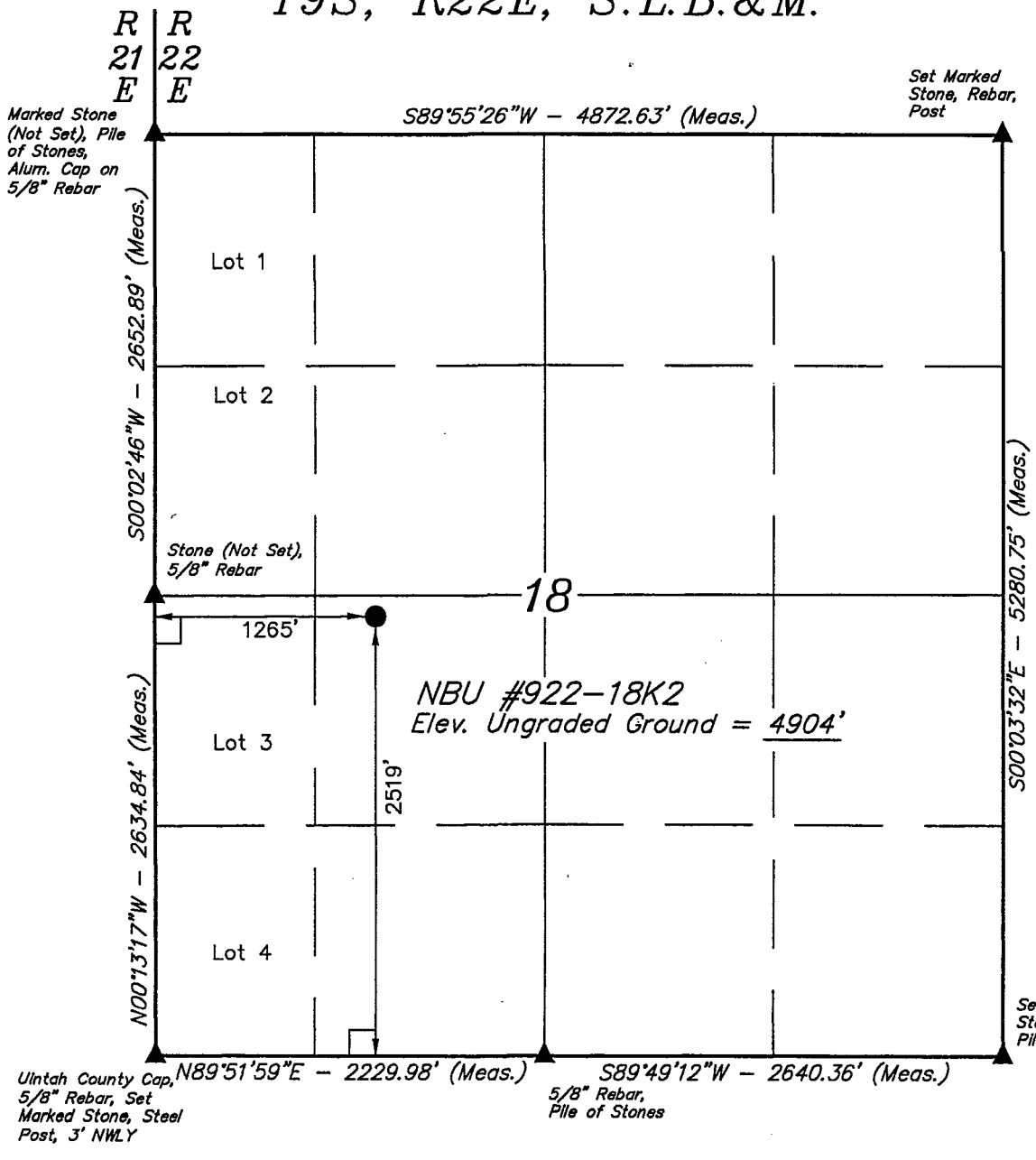
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**(Instructions on reverse)*

Federal Approval of this Action is Necessary

RECEIVED
NOV 13 2007
DIV. OF OIL, GAS & MINING

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



Kerr–McGee Oil & Gas Onshore LP

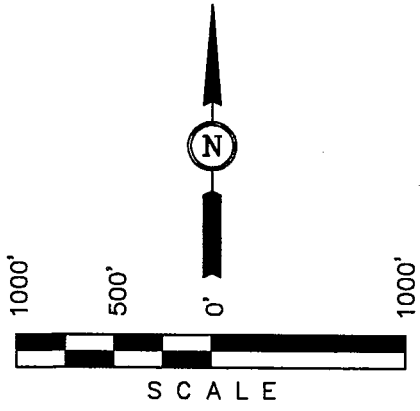
Well location, NBU #922–18K2, located as shown in the NE 1/4 SW 1/4 of Section 18, T9S, R22E, S.L.B.&M., Uintah County, Utah.

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

LEGEND:

└ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

(NAD 83)
LATITUDE = 40°02'08.35" (40.035653)
LONGITUDE = 109°29'10.37" (109.486214)
(NAD 27)
LATITUDE = 40°02'08.48" (40.035689)
LONGITUDE = 109°29'07.90" (109.485528)

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

SCALE	DATE SURVEYED:	DATE DRAWN:
1" = 1000'	05–07–07	05–21–07
PARTY: D.K. L.K. C.H.	REFERENCES: G.L.O. PLAT	
WEATHER: WARM	FILE: Kerr–McGee Oil & Gas Onshore LP	

NBU 922-18K2
NE/SW 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	1770'
Top of Birds Nest Water	2063'
Mahogany	2424'
Wasatch	5017'
Mesaverde	7763'
MVU2	8691'
MVL1	9191'
TD (MD)	9830'

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

Substance	Formation	Depth
	Green River	1770'
	Top of Birds Nest Water	2063'
	Mahogany	2424'
Gas	Wasatch	5107'
Gas	Mesaverde	7763'
Gas	MVU2	8691'
Gas	MVL1	9191'
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 9830' TD, approximately equals 6095 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 3932 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.

KerrMcGee

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	November 6, 2007	
WELL NAME	**NBU 922-18K2**		TD	9,830' MD/TVD	
FIELD	Natural Buttes	COUNTY Uintah	STATE Utah	ELEVATION	4,899' GL KB 4,914'
SURFACE LOCATION	NE/SW SEC. 18, T9S, R22E 2519'FSL, 1265'FWL			BHL	Straight Hole
	Latitude: 40.035653	Longitude: 109.486214			
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: TRIBAL SURFACE, BLM MINERALS, UDOGM, Tri-County Health Dept.				

LOGS	GEOLOGICAL FORMATION TOPS	DEPTH	MECHANICAL HOLE SIZE	MECHANICAL CASING SIZE	MUD WEIGHT
		40'	14"		
			12-1/4"	9-5/8", 36#, J-55, LTC	Air mist
Catch water sample, if possible, from 0 to 5,017'	Green River @	1,770'			
	Top of Birds Nest Water @	2,063'			
	Mahogany @	2,424'			
	Preset f/ GL @	2,700' MD			
	Note: 12.25" surface hole will usually be drilled ±400' below the bottom of lost circulation zone. Drilled depth may be ±200' of the estimated set depth depending on the acutal depth of the loss zone.				
Mud logging program TBD Open hole logging program f/ TD - surf csg			7-7/8"	4-1/2",11.6#, I-80 or equivalent LTC casing	Water/Fresh Water Mud 8.3-11.7 ppg
	Wasatch @	5,017'			
	Mverde @	7,763'			
	MVU2 @	8,691'			
	MVL1 @	9,191'			
	TD @	9,830'		Max anticipated Mud required	11.7 ppg

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	2,700'	36.00	J-55	LTC	0.92	1.60	5.32
								7780	6350	201000
PRODUCTION	4-1/2"	0	to	9830	11.60	I-80	LTC	2.04	1.06	2.02

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 = 11.7 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 3818 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)	250	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	100		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	2000	Prem cmt + 16% Gel + 10 pps gilsonite + 25 pps Flocele + 3% salt BWOC	230	35%	11.00	3.32
	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	4,510'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	490	60%	11.00	3.38
	TAIL	5,320'	50/50 Poz/G + 10% salt + 2% gel + .1% R-3	1490	60%	14.30	1.31

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

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

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. 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 Systems for mud monitoring. If no PVT is available, visual monitoring will be utilized.

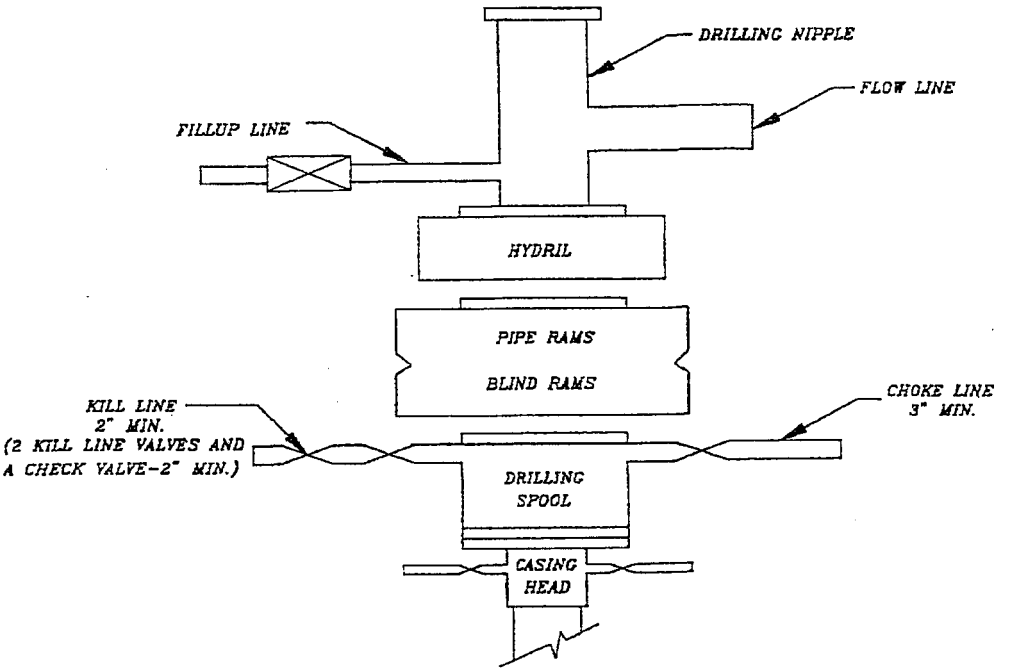
DRILLING ENGINEER: _____ **DATE:** _____

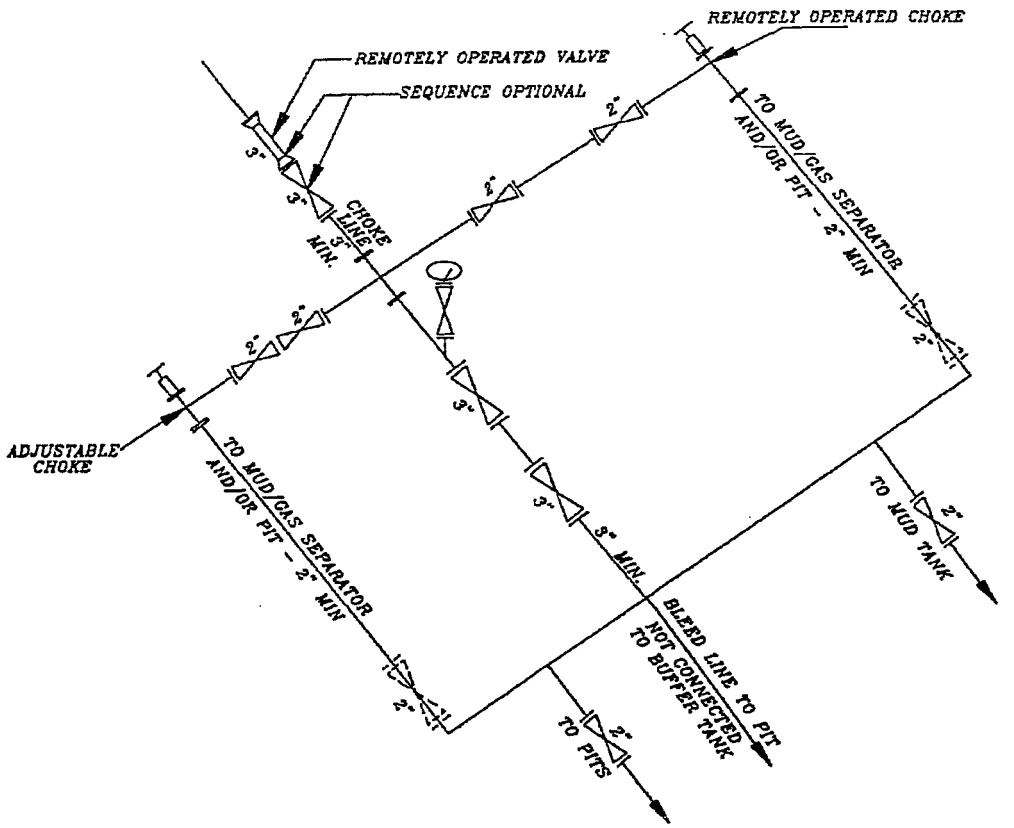
Brad Laney

DRILLING SUPERINTENDENT: _____ **DATE:** _____

Randy Bayne

5M BOP STACK and CHOKE MANIFOLD SYSTEM





Weatherford

Drilling Services

Proposal

Anadarko KerrMcGee

ANADARKO - KERR McGEE

NBU 922-18K2

UINTAH COUNTY, UTAH

WELL FILE: PLAN 1

DATE: SEPTEMBER 26, 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 922-18K2
UINTAH COUNTY, UTAH

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

Magnetic Field
Strength: 52767nT
Dip Angle: 66.02°
Date: 9/26/2007
Model: bggm2006

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	9830.00	0.00	0.00	9830.00	0.00	0.00	0.00	0.00	0.00	PBHL

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
18K2	0.00	0.00	14542630.60	2064391.30	40°02'08.335N	109°29'07.307W	N/A

CASING DETAILS

No.	TVD	MD	Name	Size
1	2700.00	2700.00	9 5/8"	9.62

FORMATION TOP DETAILS

No.	TVDPath	MDPath	Formation
1	5016.00	5016.00	WASATCH
2	7773.00	7773.00	MESAVERDE

FIELD DETAILS

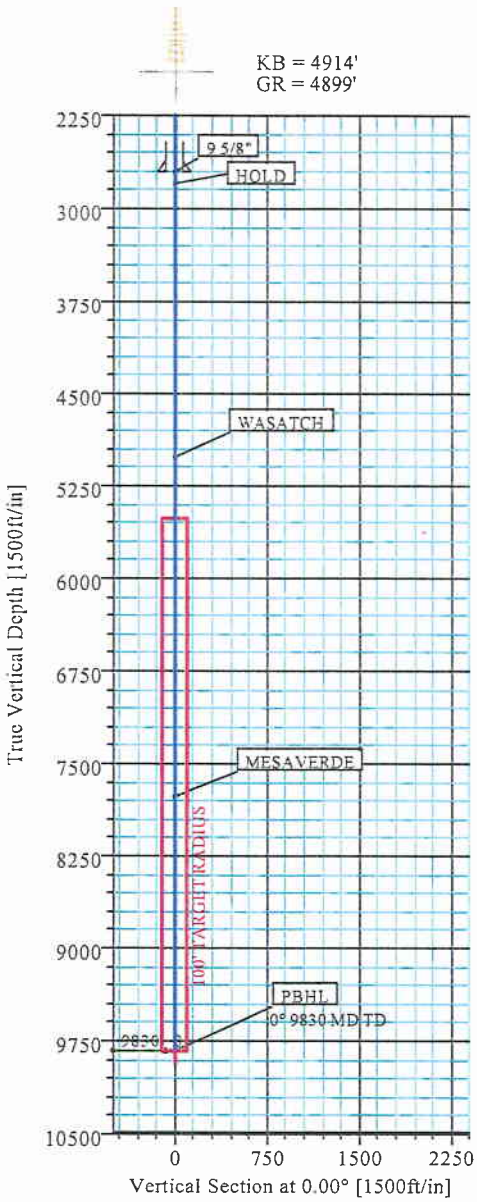
UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)

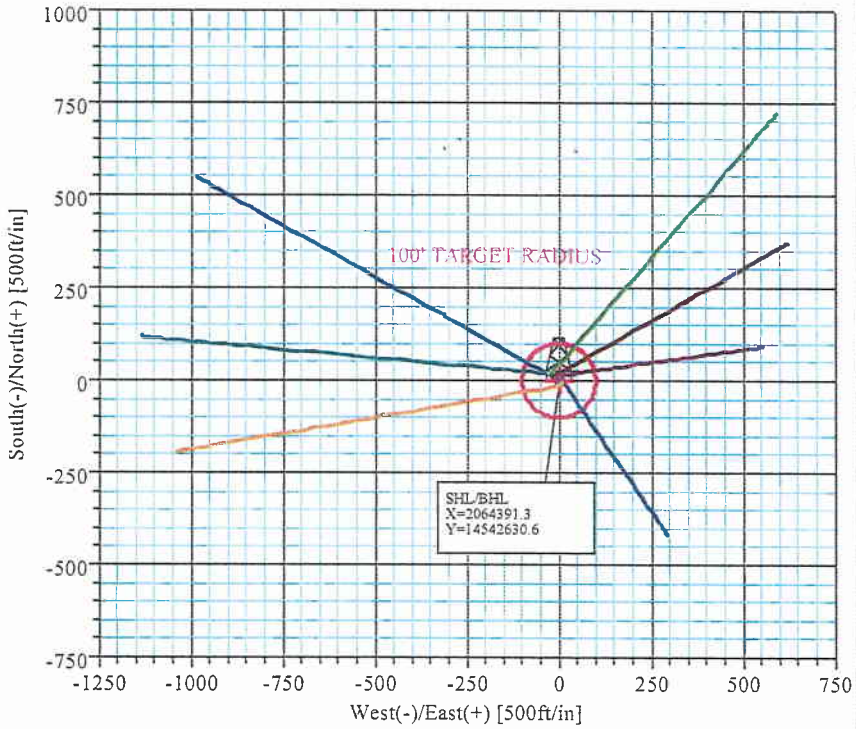
Geodetic System: Universal Transverse Mercator (USfeet)
Ellipsoid: NAD27 (Clarke 1866)
Zone: UTM Zone 12, North 114W to 108W
Magnetic Model: bggm2006

System Datum: Mean Sea Level
Local North: Grid North

LEGEND

- 18E3BS (1)
- 18E3CS (1)
- 18F4BS (1)
- 18F4CS (1)
- 18K1BS (1)
- 18K2DS (1)
- 18L2BS (1)
- Plan #1 18K2S





Plan: Plan #1 18K2S (18K2/1)
Created By: R. JOYNER
Date: 9/26/2007

Weatherford Drilling Services
DIRECTIONAL PLAN REPORT

Weatherford

Company:	Anadarko-Kerr-McGee	**Date:** 9/28/2007 **Time:** 09:06:04	**Page:** 1
Field:	UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	**Co-ordinate(NE) Reference:**	Site: NBU 922-18K2 PAD EFKL, Grid North
Site:	NBU 922-18K2 PAD EFKL	**Vertical (TVD) Reference:**	SITE 4914.0
Well:	18K2	**Section (VS) Reference:**	Well (0.00N,0.00E,0.00Azi)
Wellpath:	1	**Survey Calculation Method:**	Minimum Curvature **Db:** Sybase

Plan:	Plan #1 18K2S	**Date Composed:**	9/26/2007
		Version:	1
Principal:	Yes	**Tied-to:**	From Surface

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 922-18K2 PAD EFKL

2519 FSL, 1265 FWL - SEC18 T9S R22E

Site Position:		**Northing:**	14542630.60 ft	**Latitude:**	40 2 8.335 N
From:	Map	**Easting:**	2064391.30 ft	**Longitude:**	109 29 7.307 W
Position Uncertainty:	0.00 ft			**North Reference:**	Grid
Ground Level:	4899.00 ft			**Grid Convergence:**	0.97 deg

Well: 18K2 **Slot Name:**

Well Position:	+N/-S	0.00 ft	**Northing:**	14542630.60 ft	**Latitude:**	40 2 8.335 N
	+E/-W	0.00 ft	**Easting:**	2064391.30 ft	**Longitude:**	109 29 7.307 W
Position Uncertainty:		0.00 ft				

Wellpath: 1 **Drilled From:** Surface

Tie-on Depth: 0.00 ft

Current Datum:	SITE	**Height** 4914.00 ft	**Above System Datum:** Mean Sea Level
Magnetic Data:	9/26/2007		**Declination:** 11.57 deg
Field Strength:	52767 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	0.00

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9830.00	0.00	0.00	9830.00	0.00	0.00	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
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	9 5/8"
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	HOLD
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
4300.00	0.00	0.00	4300.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
4400.00	0.00	0.00	4400.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	

Weatherford Drilling Services
DIRECTIONAL PLAN REPORT

Weatherford

Company:	Anadarko-Kerr-McGee	**Date:** 9/28/2007	**Time:** 09:06:04	**Page:**	2
Field:	UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	**Co-ordinate(NE) Reference:**	Site: NBU 922-18K2 PAD EFKL, Grid North		
Site:	NBU 922-18K2 PAD EFKL	**Vertical (TVD) Reference:**	SITE 4914.0		
Well:	18K2	**Section (VS) Reference:**	Well (0.00N,0.00E,0.00Azi)		
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
4600.00	0.00	0.00	4600.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
4700.00	0.00	0.00	4700.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
4800.00	0.00	0.00	4800.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
4900.00	0.00	0.00	4900.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
5000.00	0.00	0.00	5000.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
5016.00	0.00	0.00	5016.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	WASATCH
5100.00	0.00	0.00	5100.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
5200.00	0.00	0.00	5200.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
5300.00	0.00	0.00	5300.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
5400.00	0.00	0.00	5400.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
5500.00	0.00	0.00	5500.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
5600.00	0.00	0.00	5600.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
5700.00	0.00	0.00	5700.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
5800.00	0.00	0.00	5800.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
5900.00	0.00	0.00	5900.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
6000.00	0.00	0.00	6000.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
6100.00	0.00	0.00	6100.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
6200.00	0.00	0.00	6200.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
6300.00	0.00	0.00	6300.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
6400.00	0.00	0.00	6400.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
6500.00	0.00	0.00	6500.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
6600.00	0.00	0.00	6600.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
6700.00	0.00	0.00	6700.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
6800.00	0.00	0.00	6800.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
6900.00	0.00	0.00	6900.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
7000.00	0.00	0.00	7000.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
7100.00	0.00	0.00	7100.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
7200.00	0.00	0.00	7200.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
7300.00	0.00	0.00	7300.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
7400.00	0.00	0.00	7400.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
7500.00	0.00	0.00	7500.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
7600.00	0.00	0.00	7600.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
7700.00	0.00	0.00	7700.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
7773.00	0.00	0.00	7773.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	MESAVERDE
7800.00	0.00	0.00	7800.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
7900.00	0.00	0.00	7900.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
8000.00	0.00	0.00	8000.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
8100.00	0.00	0.00	8100.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
8200.00	0.00	0.00	8200.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
8300.00	0.00	0.00	8300.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
8400.00	0.00	0.00	8400.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
8500.00	0.00	0.00	8500.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
8600.00	0.00	0.00	8600.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
8700.00	0.00	0.00	8700.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
8800.00	0.00	0.00	8800.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
8900.00	0.00	0.00	8900.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
9000.00	0.00	0.00	9000.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
9100.00	0.00	0.00	9100.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
9200.00	0.00	0.00	9200.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
9300.00	0.00	0.00	9300.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
9400.00	0.00	0.00	9400.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
9500.00	0.00	0.00	9500.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	

Weatherford Drilling Services
DIRECTIONAL PLAN REPORT

Weatherford

Company:	Anadarko-Kerr-McGee	**Date:** 9/28/2007 **Time:** 09:06:04	**Page:** 3
Field:	UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	**Co-ordinate(NE) Reference:**	Site: NBU 922-18K2 PAD EFKL, Grid North
Site:	NBU 922-18K2 PAD EFKL	**Vertical (TVD) Reference:**	SITE 4914.0
Well:	18K2	**Section (VS) Reference:**	Well (0.00N,0.00E,0.00Azi)
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
9600.00	0.00	0.00	9600.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
9700.00	0.00	0.00	9700.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
9800.00	0.00	0.00	9800.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	
9830.00	0.00	0.00	9830.00	0.00	0.00	0.00	0.00	14542630.60	2064391.30	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			9830.00	0.00	0.00	14542630.60	2064391.30	40 2 8.335 N	109 29 7.307 W

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
2700.00	2700.00	9.62	12.25	9 5/8"

Annotation

MD ft	TVD ft	
2800.00	2800.00	HOLD
9830.00	9830.00	PBHL

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
5016.00	5016.00	WASATCH		0.00	0.00
7773.00	7773.00	MESAVERDE		0.00	0.00

Weatherford Drilling Services

GeoDec v4.1.130

Report Date:	September 26, 2007
Job Number:	
Customer:	ANADARKO-KERR McGEE
Well Name:	NBU 922-18K2
API Number:	
Rig Name:	
Location:	UNITAH COUNTY, UTAH
Block:	
Engineer:	R JOYNER

Universal Transverse Mercator	Geodetic Latitude / Longitude
System: Zone 12N (114 W to 108 W)	System: Latitude / Longitude
Projection: Transverse Mercator/Gauss Kruger	Projection: Geodetic Latitude and Longitude
Datum: NAD 1927 (NADCON CONUS)	Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866	Ellipsoid: Clarke 1866
North/South 14542630.600 USFT	Latitude 40 2 8.3352317 DMS
East/West 2064391.300 USFT	Longitude -109 29 7.3068381 DMS
Grid Convergence: .97450398°	
Total Correction: +10.5945°	

Geodetic Location WGS84	Elevation = 1493.0 Meters	
Latitude =	40.03565° N	40° 2 min 8.335 sec
Longitude =	109.48536° W	109° 29 min 7.307 sec

Magnetic Declination =	+11.5690° [True North Offset]		
Local Gravity =	.9995 g		
Local Field Strength=	52728 nT	Mag Vector X =	20993 nT
Dip =	66.0210°	Mag Vector Y =	4297 nT
Model File:	bggm2006	Mag Vector Z =	48177 nT
Spud Date:	Sep 26, 2007	Mag Vector H =	21428 nT

Signed:_____ Date:_____

NBU 922-18K2
NE/SW 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 0.15 +/- miles 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 3394'' +/- 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

11/7/2007
Date

Kerr-McGee Oil & Gas Onshore LP
NBU #922-18K2,K2DS, K1BS, E3CS, E3S, K2BS, F4CS, & F4BS
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 6.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN EASTERLY DIRECTION APPROXIMATELY 5.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 3.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 1.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE #922-18E2 TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 150' TO THE PROPOSED #922-18E2 AND THE BEGINNNING OF THE PROPOSED ACCESS TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.15 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 49.75 MILES.

RECEIVED
NOV 13 2007
DIV. OF OIL, GAS & MINING

Kerr-McGee Oil & Gas Onshore LP

NBU #922-18K2, K2DS, K1BS, E3CS, E3S, K2BS, F4CS, & F4BS

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

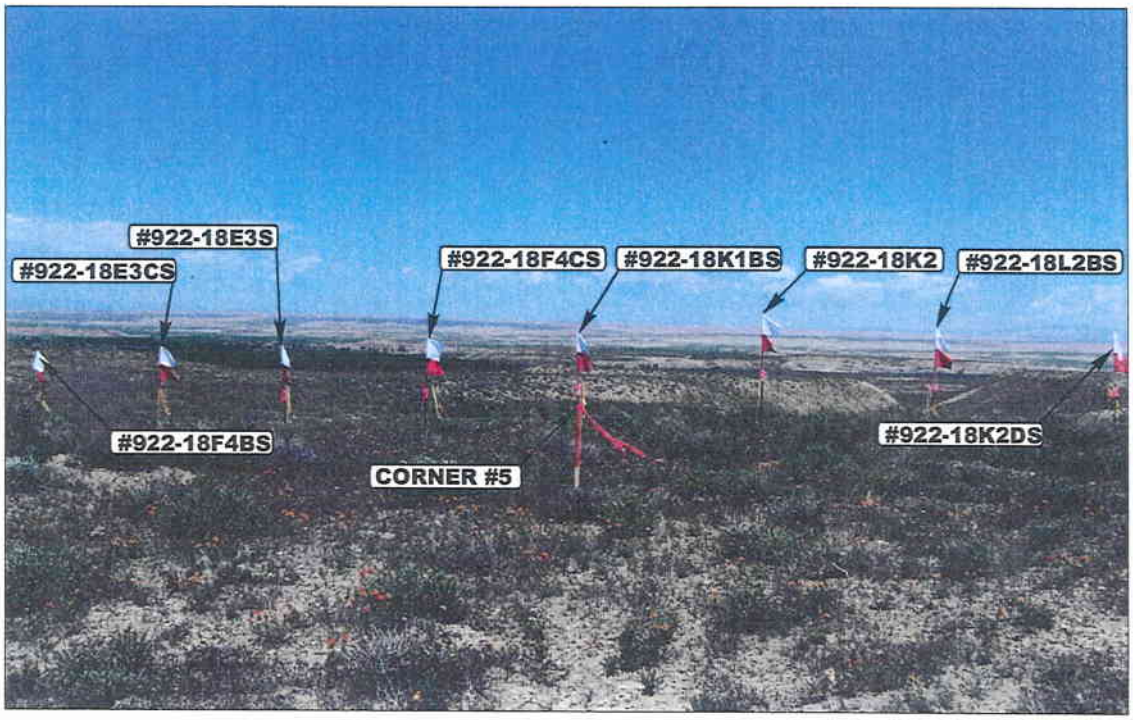


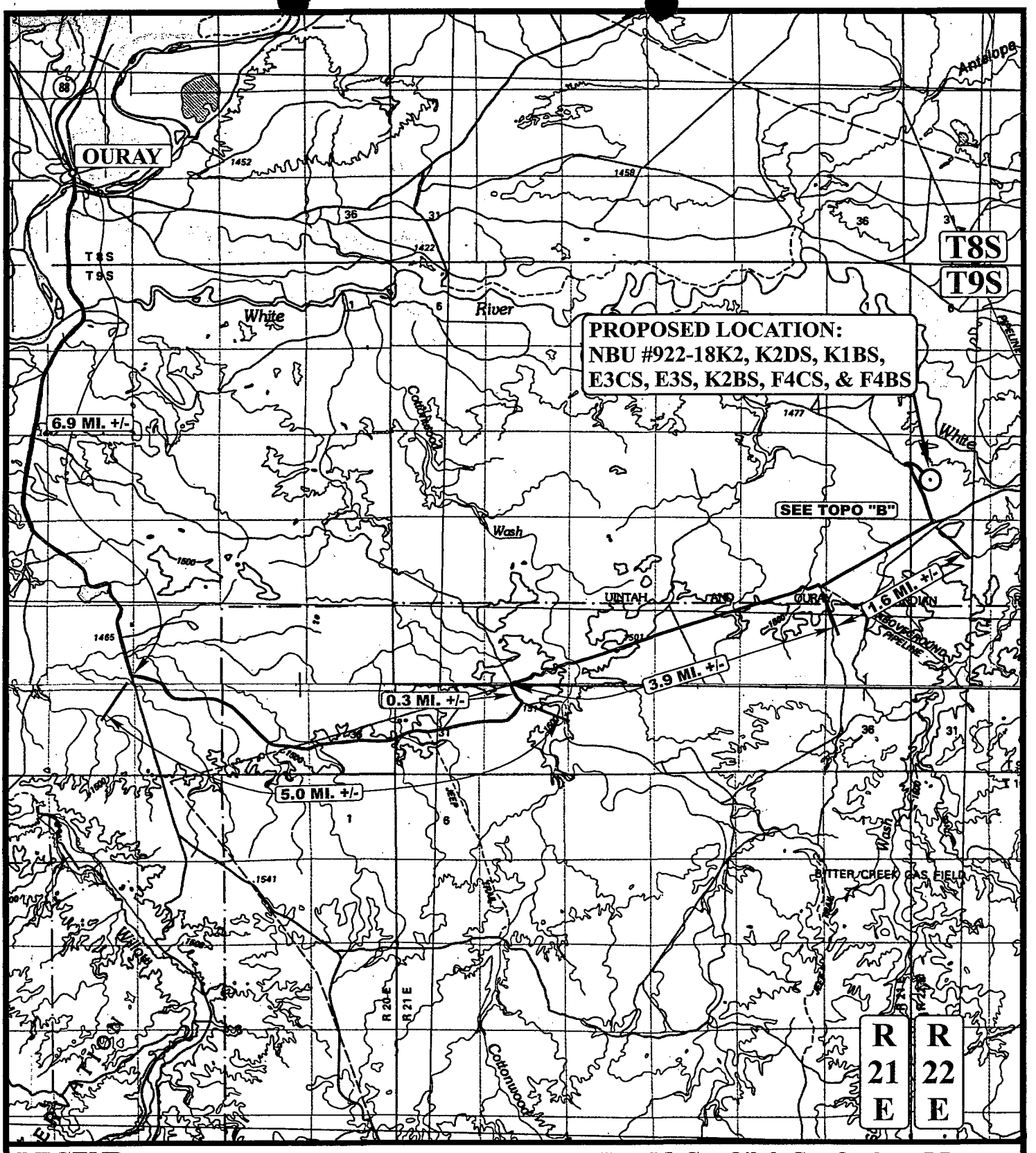
PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKES **CAMERA ANGLE: NORTHEASTERLY**

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

- 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: B.C.	REVISED: 00-00-00		



LEGEND:

⊙ PROPOSED LOCATION

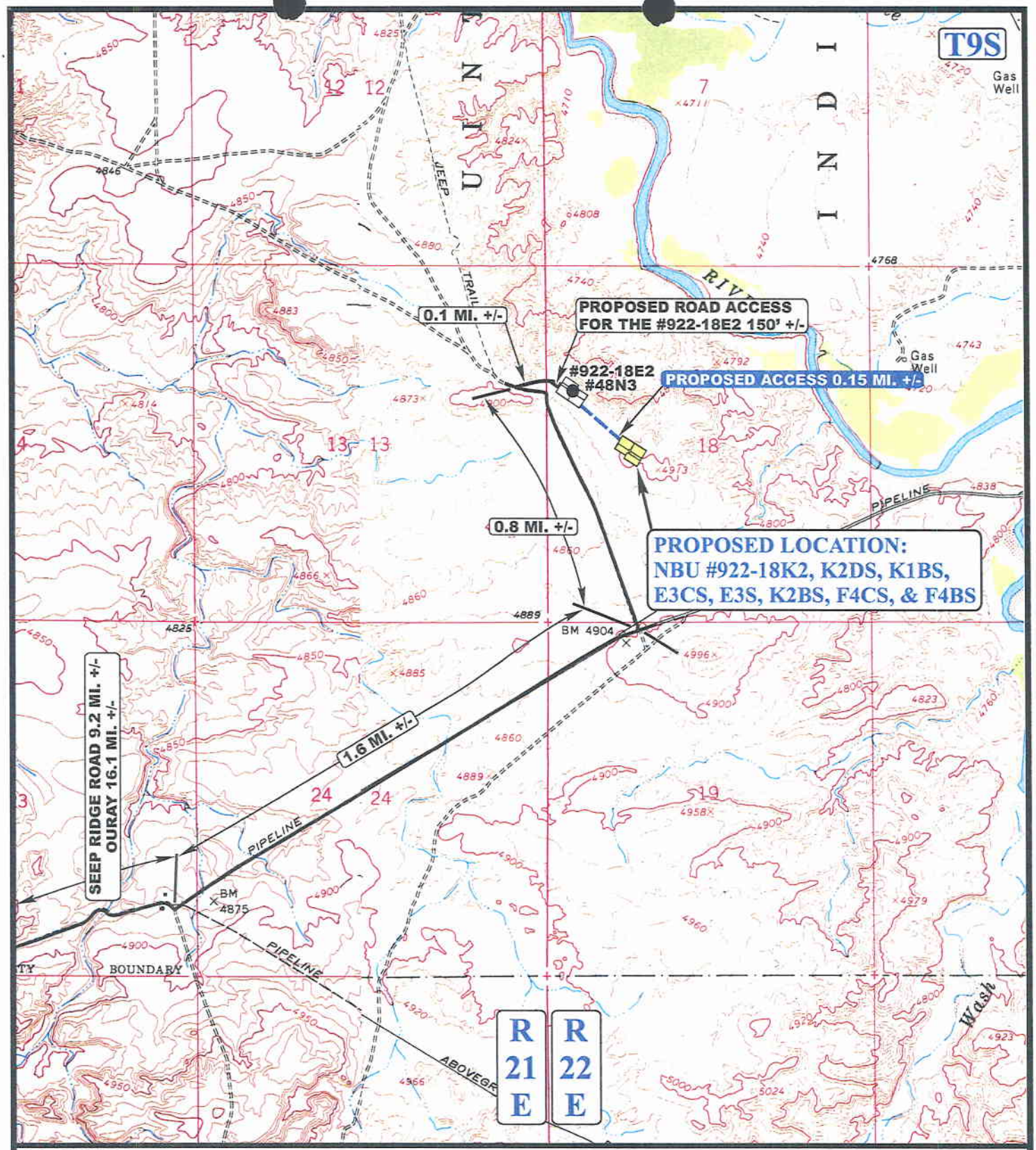
N

Kerr-McGee Oil & Gas Onshore LP

NBU #922-18K2, K2DS, K1BS, E3CS,
E3S, K2BS, F4CS, &F4BS
SECTION 18, T9S, R22E, S.L.B.&M.
NE 1/4 SW 1/4

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: B.C.	REVISED: 00-00-00		



LEGEND:

EXISTING ROAD

PROPOSED ACCESS ROAD

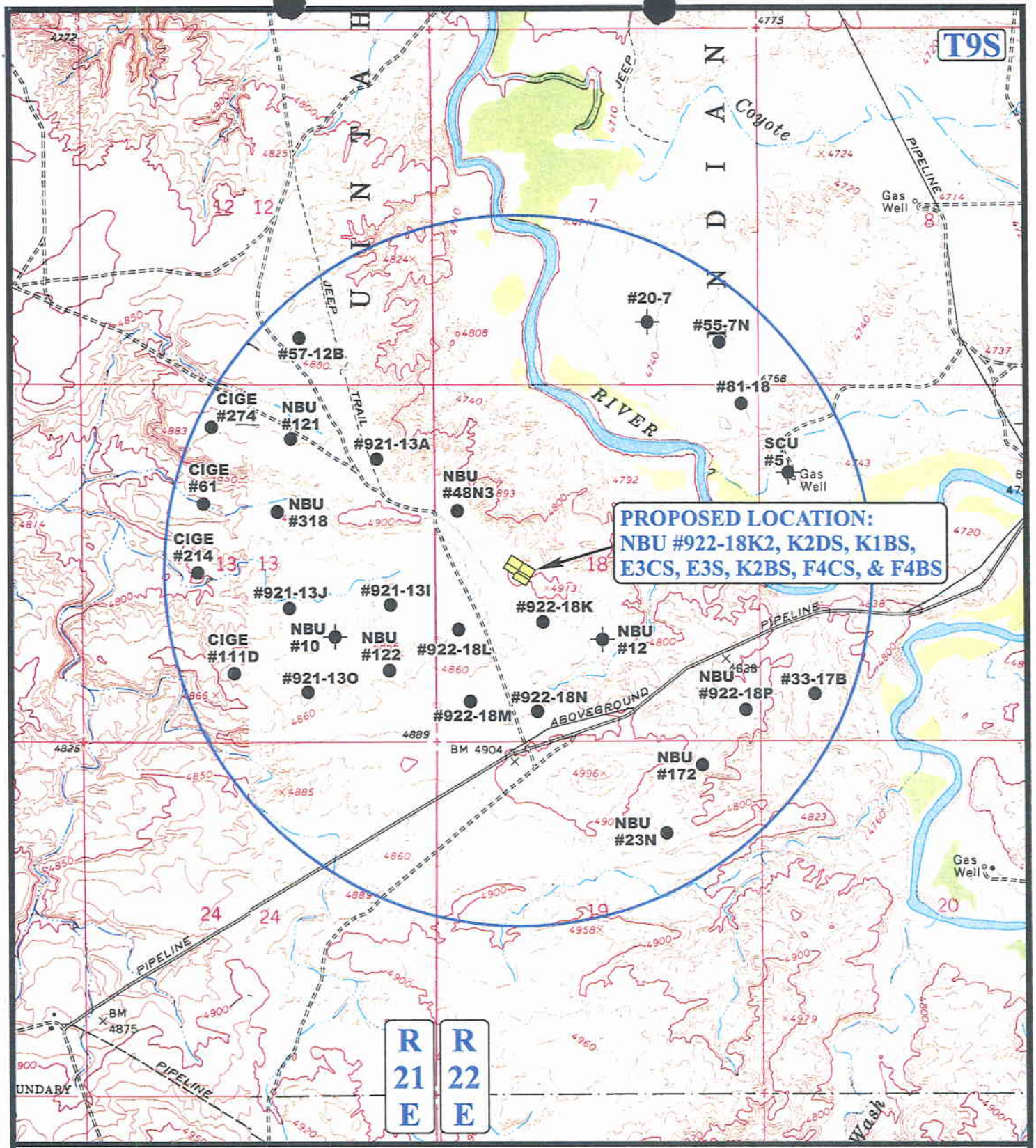
N

Kerr-McGee Oil & Gas Onshore LP

NBU #922-18K2, K2DS, K1BS, E3CS,
E3S, K2BS, F4CS, &F4BS
SECTION 18, T9S, R22E, S.L.B.&M.
NE 1/4 SW 1/4

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: B.C.	REVISED: 00-00-00		



LEGEND:

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

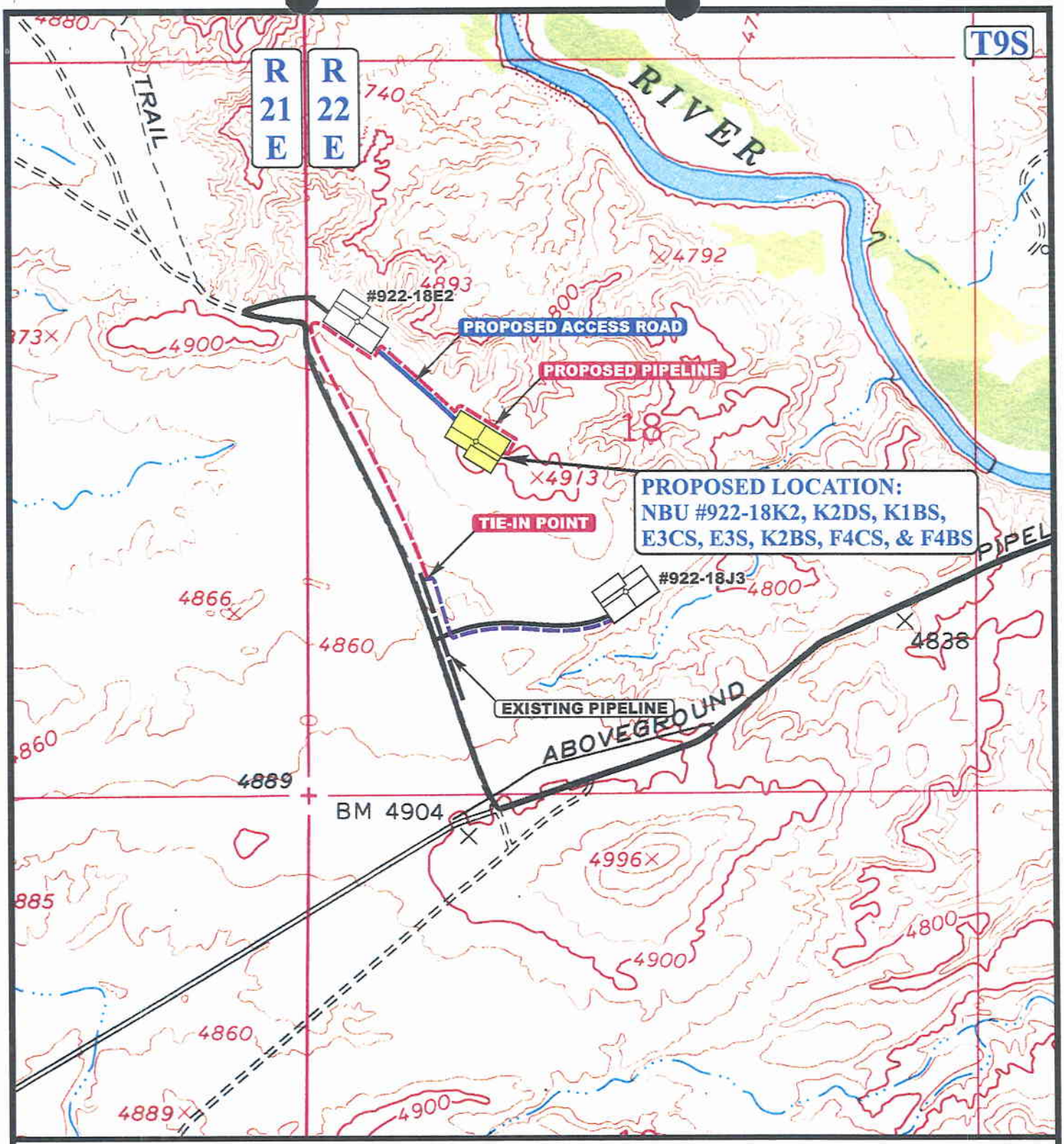
N

Kerr-McGee Oil & Gas Onshore LP

NBU #922-18K2, K2DS, K1BS, E3CS,
E3S, K2BS, F4CS, &F4BS
SECTION 18, T9S, R22E, S.L.B.&M.
NE 1/4 SW 1/4

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: B.C.	REVISED: 00-00-00		



APPROXIMATE TOTAL 10" PIPELINE DISTANCE = 3,394' +/-

LEGEND:

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

N

Kerr-McGee Oil & Gas Onshore LP

NBU #922-18K2, K2DS, K1BS, E3CS,
E3S, K2BS, F4CS, &F4BS
SECTION 18, T9S, R22E, S.L.B.&M.
NE 1/4 SW 1/4

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: B.C.	REVISED: 10-23-07C.P.		

Kerr-McGee Oil & Gas Onshore LP

NBU #922-18K2, K2DS, K1BS, E3CS, E3S, K2BS, F4CS, & F4BS

PIPELINE ALIGNMENT

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

PHOTO: VIEW OF TIE-IN POINT **CAMERA ANGLE: SOUTHEASTERLY**

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

- 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: B.C.	REVISED: 00-00-00		

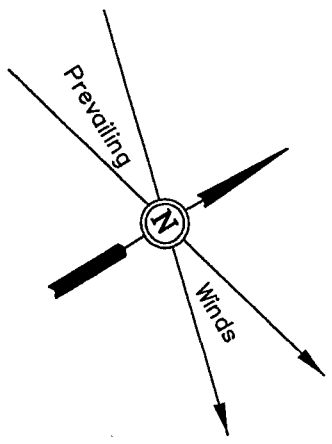
Kerr-McGee Oil & Gas Onshore LP

SITE PLAN LAYOUT FOR

NBU #922-18K2, K2DS, K1BS, E3CS, E3S, K2BS, F4CS, & F4BS

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

NE 1/4 SW 1/4



SCALE: 1" = 50'
DATE: 05-22-07
Drawn By: C.H.

Proposed Access Road

F-5.7'
El. 893.2'

Topsoil Stockpile

C-1.3'
El. 900.2'

Sta. 4+20

F-4.7'
El. 894.2'

88'

200'

190'

250'

PIPE TUBS

PIPE RACKS

CATWALK

FLARE PIT

C-3.0'
El. 901.9'

C-2.4'
El. 901.3'

El. 900.9'
C-12.0'
(btm. pit)

52'

48'

100'

60'

C-1.9'
El. 900.8'

C-5.3'
El. 904.2'

C-4.7'
El. 903.6'

F-3.8'
El. 895.1'

Sta. 1+70

40'

135'

RESERVE PITS
(10' Deep)

MUD TANKS

DOG HOUSE

TOILET

TRAILER

C-5.3'
El. 904.2'

LIGHT PLANT

BOILER

COMPRESSOR

BOOSTER

PUMP HOUSE

WATER TANK

Approx. Toe of Fill Slope

Reserve Pit Backfill & Spoils Stockpile

15' WIDE BENCH

230'

Total Pit Capacity
W/2' of Freeboard
= 23,810 Bbls. ±
Total Pit Volume
= 6,460 Cu. Yds.

1 1/2:1 Slope

TRASH

PROPANE STORAGE

Sta. 0+75

170'

150'

C-1.9'
El. 900.8'

Sta. 0+00

El. 899.9'
C-11.0'
(btm. pit)

Topsoil Stockpile

C-3.0'
El. 901.9'

F-2.1'
El. 896.8'

Approx. Top of Cut Slope

NOTES:

Elev. Ungraded Ground At #18K2 Loc. Stake = 4903.6'

FINISHED GRADE ELEV. AT #18K2 LOC. STAKE = 4898.9'

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

Kerr–McGee Oil & Gas Onshore LP

TYPICAL CROSS SECTIONS FOR

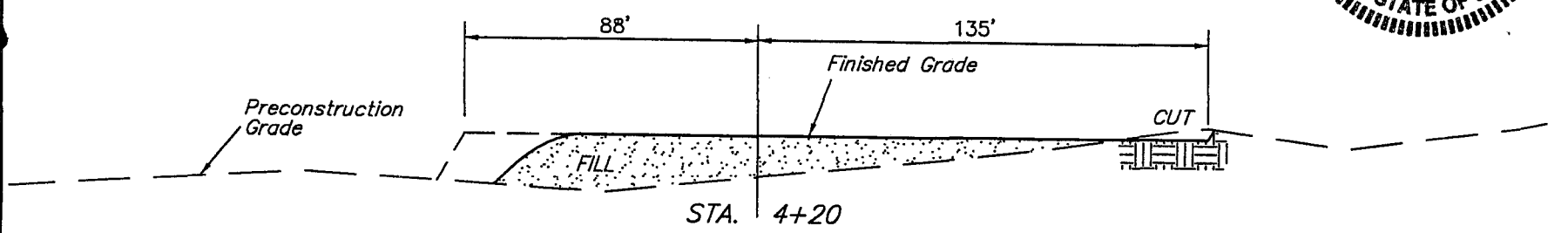
NBU #922–18K2, K2DS, K1BS, E3CS, E3S, K2BS, F4CS, & F4BS
SECTION 18, T9S, R22E, S.L.B.&M.
NE 1/4 SW 1/4

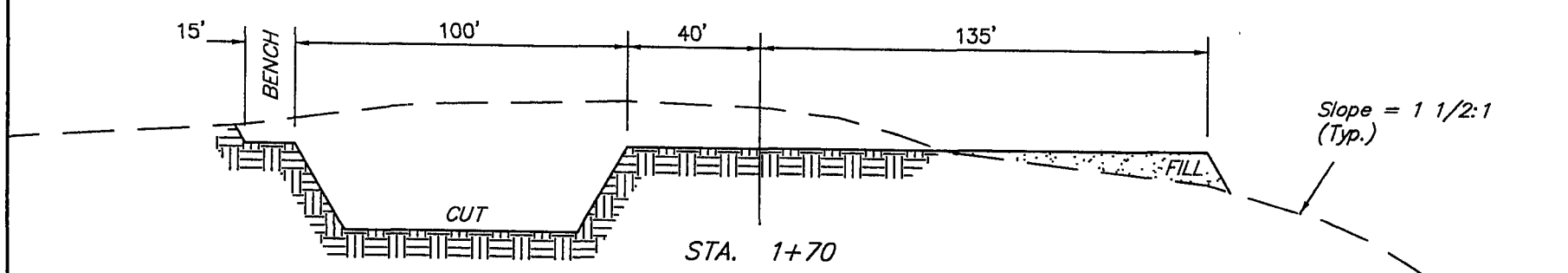
FIGURE #2

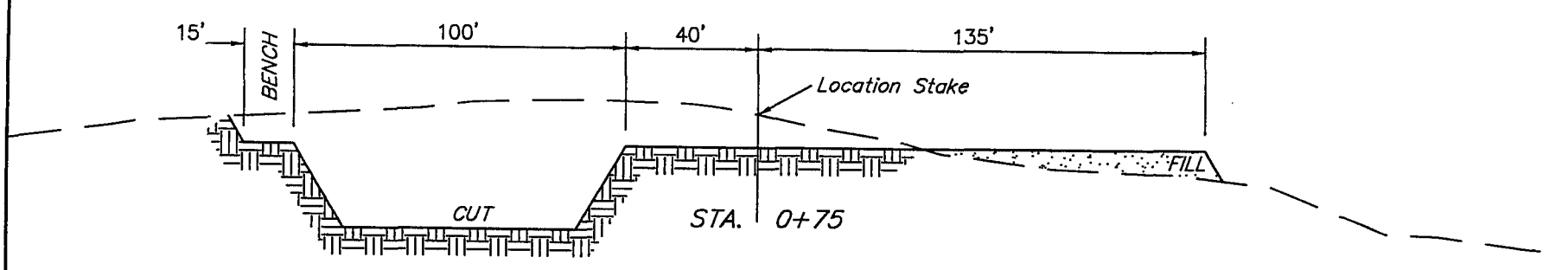
1" = 20'
X–Section Scale
1" = 50'

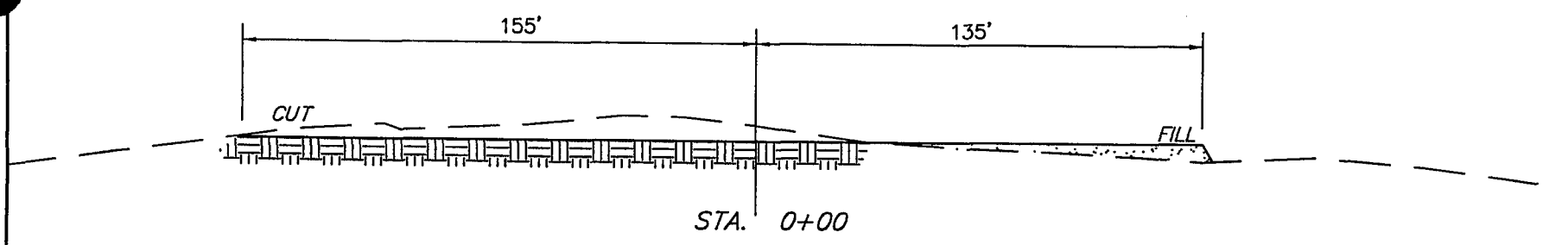
DATE: 05–22–07
Drawn By: C.H.

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









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

APPROXIMATE YARDAGES

CUT
(12") Topsoil Stripping = *4,490* Cu. Yds.
Remaining Location = *11,170* Cu. Yds.

TOTAL CUT = *15,660* CU.YDS.
FILL = *7,940* CU.YDS.

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

EXCESS MATERIAL = *7,720* Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.) = *7,720* Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation) = *0* Cu. Yds.

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

Kerr-McGee Oil & Gas Onshore LP

SITE PLAN LAYOUT FOR

NBU #922-18K2, K2DS, K1BS, E3CS, E3S, K2BS, F4CS, & F4BS

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

NE 1/4 SW 1/4

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

SCALE: 1" = 50'
DATE: 05-22-07
Drawn By: C.H.

N84°05'42"W - 1101.29'
(TO BOTTOM HOLE)

N60°07'47"W - 1070.89'
(TO BOTTOM HOLE)

S80°41'55"W - 1063.78'
(TO BOTTOM HOLE)

N42°21'33"E - 937.28'
(TO BOTTOM HOLE)

N62°46'49"E - 746.40'
(TO BOTTOM HOLE)

N82°01'17"E - 569.83'
(TO BOTTOM HOLE)

S33°14'04"E - 488.51'
(TO BOTTOM HOLE)

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

WORKSHEET

APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/13/2007

API NO. ASSIGNED: 43-047-39791

WELL NAME: NBU 922-18K2

OPERATOR: KERR-MCGEE OIL & GAS (N2995)

PHONE NUMBER: 435-781-7024

CONTACT: SHEILA UPCHEGO

PROPOSED LOCATION:

NESW 18 090S 220E

SURFACE: 2519 FSL 1265 FWL

BOTTOM: 2519 FSL 1265 FWL

COUNTY: UINTAH

LATITUDE: 40.03565 LONGITUDE: -109.4854

UTM SURF EASTINGS: 629227 NORTHINGS: 4432603

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

___ R649-3-2. 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

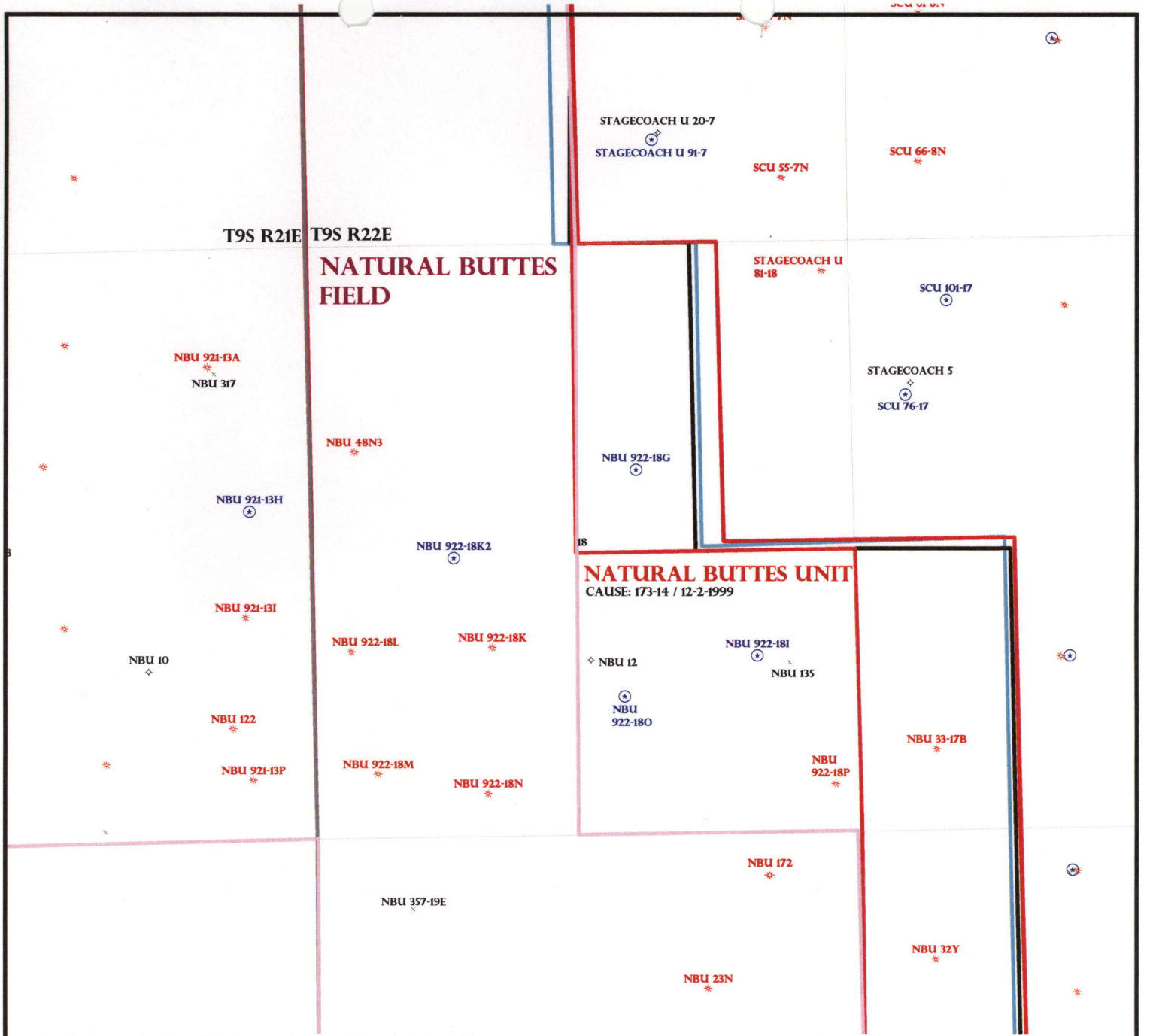
Siting: 460' fr uelsdry & Uncomm. Tracts

___ R649-3-11. Directional Drill

COMMENTS: Sop, Separate file

STIPULATIONS: 1- Fed 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: 16-NOVEMBER-2007

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

November 19, 2007

Kerr McGee Oil and Gas Onshore LP
1368 S 1200 E
Vernal, UT 84078

Re: NBU 922-18K2 Well, 2519' FSL, 1265' FWL, NE SW, 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 43-047-39791.

Sincerely,

Don Staley

for 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 McGee Oil and Gas Onshore LP

Well Name & Number NBU 922-18K2

API Number: 43-047-39791

Lease: UTU-0359

Location: NE SW **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 within 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 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.

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 19, 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 well is planned for calendar year 2007 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION

(Proposed PZ Wasatch/MesaVerde)

43-047-39791 NBU 922-18K2 Sec 18 T09S R22E 2519 FSL 1265 FWL

This office has no objection to permitting the well 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:11-19-07

Form 3160-3
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: [X] DRILL [ ] REENTER	5. Lease Serial No. **UTU-0359**
	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 922-18K2**
2. Name of Operator **KERR MCGEE OIL AND GAS ONSHORE LP**	9. API Well No. **43 047 39791**
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 **NE/SW 2519'FSL, 1265'FWL** At proposed prod. Zone	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* **27.95 +/- 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) **1265'**	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 **9830'**	20. BLM/BIA Bond No. on file **RLB0005239**
21. Elevations (Show whether DF, KDB, RT, GL, etc.) **4899'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 **11/7/2007**
Title **SENIOR LAND ADMIN SPECIALIST**		
Approved by *(Signature)*	Name *(Printed/Typed)* Jerry Kewcza	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
08MICO122A

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:**	**NESW, Sec. 18, T9S, R22E (S)**
Well No:	**NBU 922-18K2**	**Lease No:**	**UTU-0359**
API No:	**43-047-39791**	**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:

- Paint equipment Carlsbad Canyon.

- Contrary to paleo report – the moving of paleo effects is not authorized, per Tribal C.P.O.

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:

1. A mist system is approved in lieu of deduster equipment. All other equipment for air/gas drilling shall meet specifications in Onshore Order #2, III.Requirements, E. Special Drilling Operations.

2. A formation integrity test shall be performed at the surface casing shoe before drilling more than twenty feet.

3. Logging program: Gamma Ray shall be run from TD to surface.

4. The conductor pipe shall be set and cemented in a competent formation.

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.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: **KERR-McGEE OIL & GAS ONSHORE, L.P.**

Well Name: **NBU 922-18K2**

Api No: **43-047-39791** Lease Type: **FEDERAL**

Section **18** Township **09S** Range **22E** County **UINTAH**

Drilling Contractor **PETE MARTIN DRLG** RIG # **RATHOLE**

SPUDDED:

Date **11/03/08**

Time **11:00 AM**

How **DRY**

Drilling will Commence:

Reported by **LEW WELDON**

Telephone # **(435) 828-7035**

Date **11/04/08** **Signed** **CHD**

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

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP
Operator Account Number: N 2995
Address: 1368 SOUTH 1200 EAST
city VERNAL
state UT zip 84078
Phone Number: (435) 781-7024

Well 1

API Number	Well Name	QQ	Sec	Twp	Rng	County
4304740169	NBU 921-26IT	NESE	26	9S	21E	UINTAH

Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date
B	99999	2900	11/4/2008	11/10/08

Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD
SPUD WELL LOCATION ON 11/4/2008 AT 1030 HRS.

Well 2

API Number	Well Name	QQ	Sec	Twp	Rng	County
4304739756	BITTER CREEK 1122-4I	NESE	4	11S	22E	UINTAH

Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date
A	99999	17187	11/4/2008	11/10/08

Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD
SPUD WELL LOCATION ON 11/4/2008 AT 0700 HRS.

Well 3

API Number	Well Name	QQ	Sec	Twp	Rng	County
4304739791	NBU 922-18K2	NESW	18	9S	22E	UINTAH

Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date
B	99999	2900	11/3/2008	11/10/08

Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD
SPUD WELL LOCATION ON 11/3/2008 AT 1100 HRS.

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

SHEILA UPCHEGO
Name (Please Print)
Signature
REGULATORY ANALYST
Title
11/5/2008
Date

(5/2000)

RECEIVED
NOV 05 2008
DIV. OF OIL, GAS & MINING

Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter 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
TRIBAL SURFACE

7. If Unit or CA/Agreement, Name and/or No.
891008900A

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
NBU 922-18K2

2. Name of Operator
KERR-McGEE OIL & GAS ONSHORE LP

9. API Well No.
4304739791

3a. Address
1368 SOUTH 1200 EAST VERNAL, UT 84078

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

10. Field and Pool, or Exploratory Area
NATURAL BUTTES

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
2519' FSL, 1265' FWL
NE/SW, SEC.18, T9S-R22E

11. County or Parish, State
UINTAH COUNTY, UTAH

12. CHECK APPROPRIATE BOX(ES) 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
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other WELL SPUD
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

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

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 11/3/2008 AT 1100 HRS.

14. I hereby certify that the foregoing is true and correct

Name *(Printed/Typed)*
SHEILA UPCHEGO

Title
REGULATORY ANALYST

Signature
Sheila Upchego WP

Date
November 5, 2008

THIS SPACE FOR FEDERAL OR STATE 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, 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)

RECEIVED
NOV 12 2008
DIV. OF OIL, GAS & MINING

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 page 2.*

5. Lease Serial No.
UTU-0359

6. If Indian, Allottee or Tribe Name
TRIBAL SURFACE

7. If Unit of CA/Agreement, Name and/or No.
UNIT #891008900A

1. Type of Well
☐ Oil Well ☑ Gas Well ☐ Other

8. Well Name and No.
NBU 922-18K2

2. Name of Operator
KERR McGEE OIL & GAS ONSHORE LP

9. API Well No.
4304739791

3a. Address
1368 SOUTH 1200 EAST VERNAL, UTAH 84078

3b. Phone No. *(include area code)*
435.781.7024

10. Field and Pool or Exploratory Area
NATURAL BUTTES

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*
NE/SW SEC. 18, T9S, R22E 2519'FSL, 1265'FWL

11. Country or Parish, State
UINTAH COUNTY, UTAH

12. CHECK THE APPROPRIATE BOX(ES) 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
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☑ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☑ Other SET SURFACE CSG
	☐ 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 of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must 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 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

MIRU H&P 298 ON 12/09/2008. DRILLED 12 1/4" SURFACE HOLE TO 2855'. RAN 9 5/8" 36# J-55 SURFACE CSG. LEAD CMT W/312 SX PREM LITE II @11.0 PPG 3.38 YIELD. TAILED CMT W/202 SX PREM CLASS G @1.8 PPG 1.17 YIELD. DISPLACED W/217.5 BBLS FRESH WATER 1.5 BBLS OVER DID NOT PMP PLUG 10 BBLS CMT TO PIT650 PSI DIFFERENTIAL PRESSURE GOOD RETURNS THROUGH OUT JOB. BLEED BACK .5 BBL FLOATS HELD. CMT DROPPED RUN 60' OF 1" PIPE FROM GROUND LEVEL FOR TOP JOB. COULD NOT GET ANY DEEPER DUE TO FLUTED LANDING COLLAR AND LANDING RING. TRIED SEVERAL TIMES BUT WAS NOT SUCCESSFUL. PMP 100 SX PREM CLASS G @15.8 PPG 1.17 YIELD. CLEAN MUD TANKS PICKED UP DOG HOUSE STAIRS AND PIN PICKED UP BEAVER SIDE PULL OUT CAT WALK, BACK YARD STAIRS. RD CASING EVELVATORS DOCK TOP DRIVE AND PULL 1" CELLAR PLATES. CLEAN MUD TANKS, PUMPS AND PULSATION DAMPENER. CHECK VALVES AND SEAL IN BOTH PUMPS.

WORT

RELEASED H&P RIG ON 12/29/2008 AT 0200 HRS.

14. I hereby certify that the foregoing is true and correct.
Name *(Printed/Typed)*
SHEILA UPCHEGO

Title REGULATORY ANALYST

Signature

Date 12/30/2008

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date **RECEIVED**

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

JAN 05 2009

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.

DIV. OF OIL, GAS & MINING

(Instructions on page 2)

Anadarko Petroleum Corporation

ANADARKO PETROLEUM CORP.

UINTAH COUNTY, UTAH (nad 27)
NBU 922-18 PAD EFKL_ALL TGTS SET @ 25' rad
NBU 922-18K2

1 43 047 39791
9S 22E 18

Survey: FINAL

Standard Survey Report

23 January, 2009

Weatherford®

Anadarko E&P Company LP

NBU 922-18K2
UINTAH COUNTY, UTAH (nad 27)
SEC 18 T9S R22E
2545' FSL, 1223' FWL
40° 2' 8.740 N
109° 29' 8.440 W

Weatherford®

WELL DETAILS: NBU 922-18K2					
			Ground Level:	4899.00	
+N/-S	+E/-W	Northing	Easting	Latittude	Longitude	Slot
0.00	0.00	14542670.05	2064302.49	40° 2' 8.740 N	109° 29' 8.440 W	

SECTION DETAILS

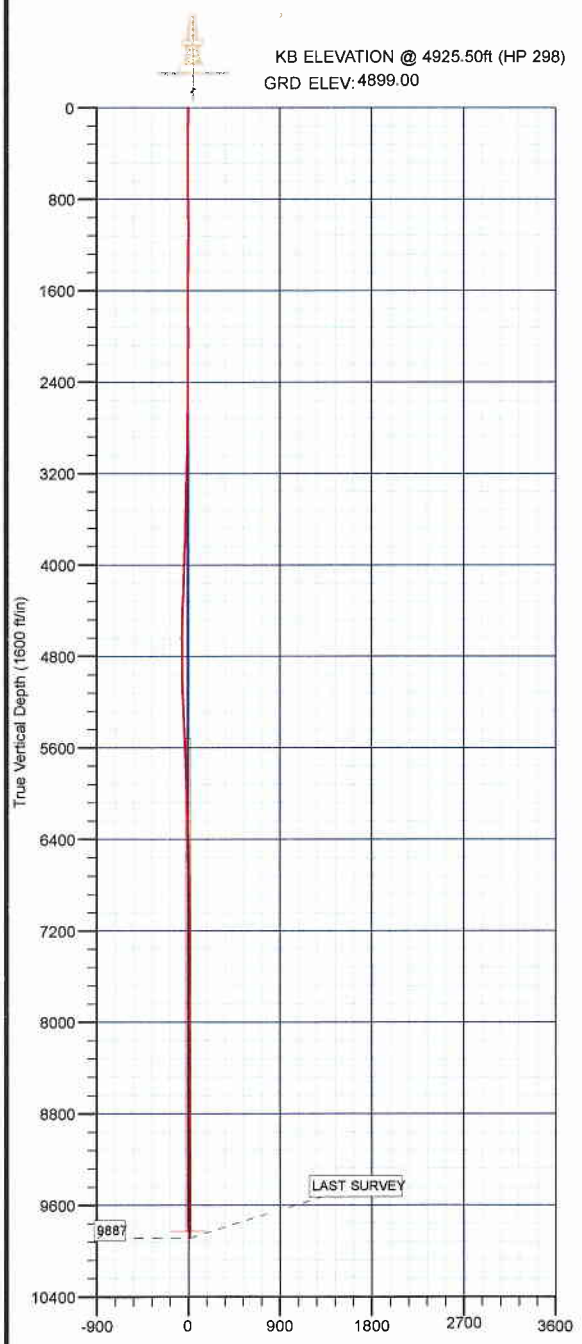
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	2765.00	0.75	182.80	2764.90	-4.82	-0.02	0.00	0.00	-4.82	
2	2955.00	0.75	182.80	2954.88	-7.30	-0.14	0.00	0.00	-7.30	
3	3036.57	0.07	1.20	3036.45	-7.79	-0.16	1.00	179.87	-7.79	
4	9830.13	0.07	1.20	9830.00	0.00	0.00	0.00	0.00	0.00	

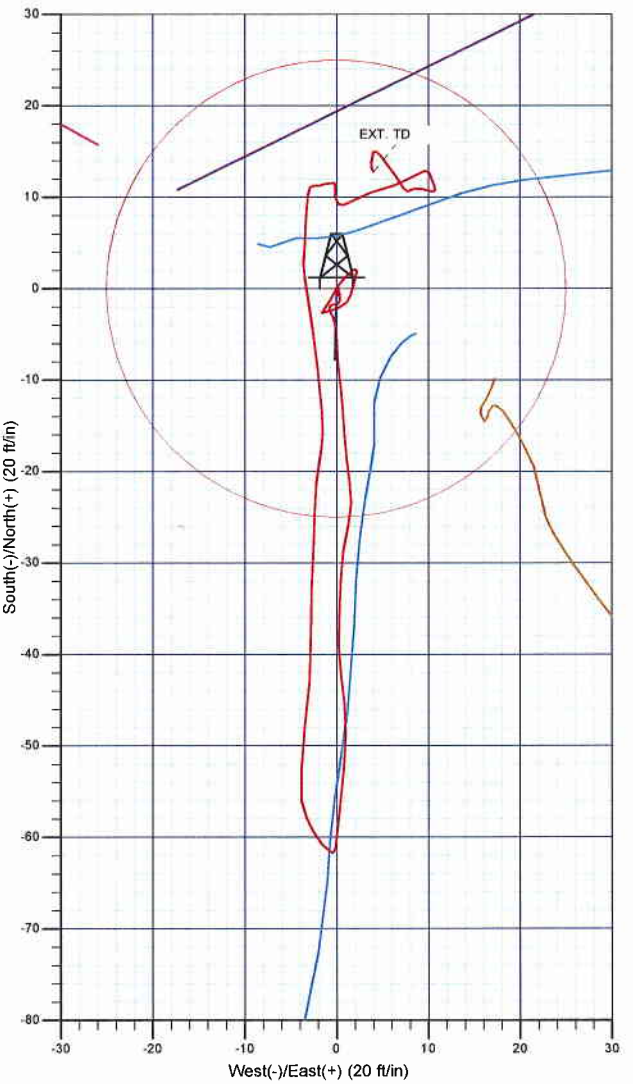
Azimuths to Grid North
True North: -0.97°
Magnetic North: 10.45°

Magnetic Field
Strength: 52585.8nT
Dip Angle: 65.96°
Date: 12/18/2008
Model: BGGM2007

Survey: Survey #1 (NBU 922-18K2/1)

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
9890.00	0.59	160.92	9887.39	12.80	3.99	0.00	0.00	12.80





Survey: Survey #1 (NBU 922-18K2/1)

Created By: Robert H. Scott

Weatherford International Ltd.

Survey Report

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well NBU 922-18K2
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	KB ELEVATION @ 4925.50ft (HP 298)
Site:	NBU 922-18 PAD EFKL_ALL TGTS SET @ 25' rad	**MD Reference:**	KB ELEVATION @ 4925.50ft (HP 298)
Well:	NBU 922-18K2	**North Reference:**	Grid
Wellbore:	1	**Survey Calculation Method:**	Minimum Curvature
Design:	1	**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 922-18 PAD EFKL_ALL TGTS SET @ 25' rad, SEC 18 T9S R22E

Site Position:		**Northing:**	14,542,660.22 ft	**Latitude:**	40° 2' 8.640 N
From:	Lat/Long	**Easting:**	2,064,319.77 ft	**Longitude:**	109° 29' 8.220 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	0.00 in	**Grid Convergence:**	0.97 °

Well NBU 922-18K2,

Well Position	**+N/-S**	0.00 ft	**Northing:**	14,542,670.05 ft	**Latitude:**	40° 2' 8.740 N
	+E/-W	0.00 ft	**Easting:**	2,064,302.49 ft	**Longitude:**	109° 29' 8.440 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,899.00 ft

Wellbore 1

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	BGGM2007	12/18/2008	11.42	65.96	52,586

Design 1

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	0.00

Survey Program **Date** 1/23/2009

From (ft)	**To (ft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
141.00	9,890.00	Survey #1 (1)	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
141.00	0.52	207.10	141.00	-0.57	-0.29	-0.57	0.37	0.37	0.00
234.00	0.56	211.26	233.99	-1.33	-0.72	-1.33	0.06	0.04	4.47
327.00	0.81	215.67	326.99	-2.26	-1.34	-2.26	0.27	0.27	4.74
419.00	0.25	56.42	418.98	-2.67	-1.55	-2.67	1.14	-0.61	-173.10
511.00	0.50	80.00	510.98	-2.49	-0.99	-2.49	0.31	0.27	25.63
603.00	0.88	70.17	602.98	-2.18	0.07	-2.18	0.43	0.41	-10.68
695.00	0.69	41.67	694.97	-1.53	1.10	-1.53	0.47	-0.21	-30.98
788.00	0.44	9.55	787.96	-0.76	1.54	-0.76	0.42	-0.27	-34.54
880.00	0.63	19.30	879.96	0.07	1.76	0.07	0.23	0.21	10.60
972.00	1.06	13.30	971.95	1.37	2.12	1.37	0.48	0.47	-6.52
1,064.00	0.38	249.80	1,063.94	2.09	2.03	2.09	1.42	-0.74	-134.24

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well NBU 922-18K2
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	KB ELEVATION @ 4925.50ft (HP 298)
Site:	NBU 922-18 PAD EFKL_ALL TGTS SET @ 25' rad	**MD Reference:**	KB ELEVATION @ 4925.50ft (HP 298)
Well:	NBU 922-18K2	**North Reference:**	Grid
Wellbore:	1	**Survey Calculation Method:**	Minimum Curvature
Design:	1	**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)
1,157.00	0.44	223.04	1,156.94	1.73	1.50	1.73	0.21	0.06	-28.77
1,251.00	0.56	231.42	1,250.94	1.18	0.90	1.18	0.15	0.13	8.91
1,346.00	0.75	211.67	1,345.93	0.36	0.21	0.36	0.31	0.20	-20.79
1,440.00	0.25	150.17	1,439.93	-0.34	-0.01	-0.34	0.71	-0.53	-65.43
1,536.00	0.23	90.25	1,535.93	-0.53	0.28	-0.53	0.25	-0.02	-62.42
1,631.00	0.13	207.55	1,630.93	-0.62	0.42	-0.62	0.33	-0.11	123.47
1,725.00	0.19	240.17	1,724.93	-0.79	0.24	-0.79	0.11	0.06	34.70
1,820.00	0.13	3.17	1,819.93	-0.77	0.11	-0.77	0.30	-0.06	129.47
1,914.00	0.38	0.42	1,913.93	-0.35	0.12	-0.35	0.27	0.27	-2.93
2,009.00	0.25	13.17	2,008.92	0.17	0.17	0.17	0.15	-0.14	13.42
2,103.00	0.63	178.67	2,102.92	-0.15	0.22	-0.15	0.93	0.40	176.06
2,198.00	0.63	162.42	2,197.92	-1.17	0.39	-1.17	0.19	0.00	-17.11
2,293.00	0.44	273.80	2,292.92	-1.64	0.19	-1.64	0.94	-0.20	117.24
2,388.00	0.56	244.92	2,387.91	-1.81	-0.60	-1.81	0.29	0.13	-30.40
2,483.00	0.44	136.44	2,482.91	-2.27	-0.77	-2.27	0.86	-0.13	-114.19
2,577.00	0.63	166.05	2,576.91	-3.04	-0.39	-3.04	0.35	0.20	31.50
2,672.00	0.44	157.17	2,671.90	-3.88	-0.12	-3.88	0.22	-0.20	-9.35
2,765.00	0.75	182.80	2,764.90	-4.82	-0.02	-4.82	0.43	0.33	27.56
2,953.00	1.33	173.78	2,952.86	-8.22	0.16	-8.22	0.32	0.31	-4.80
3,047.00	1.59	173.38	3,046.83	-10.60	0.43	-10.60	0.28	0.28	-0.43
3,142.00	1.66	176.00	3,141.80	-13.28	0.68	-13.28	0.11	0.07	2.76
3,235.00	1.64	175.84	3,234.76	-15.95	0.87	-15.95	0.02	-0.02	-0.17
3,330.00	1.59	174.05	3,329.72	-18.62	1.10	-18.62	0.07	-0.05	-1.88
3,425.00	1.49	171.65	3,424.69	-21.15	1.42	-21.15	0.13	-0.11	-2.53
3,519.00	1.38	179.17	3,518.66	-23.49	1.61	-23.49	0.23	-0.12	8.00
3,613.00	1.61	195.45	3,612.62	-25.89	1.28	-25.89	0.51	0.24	17.32
3,707.00	1.91	187.41	3,706.58	-28.72	0.72	-28.72	0.41	0.32	-8.55
3,801.00	2.31	182.18	3,800.52	-32.17	0.45	-32.17	0.47	0.43	-5.56
3,895.00	2.09	182.89	3,894.45	-35.77	0.29	-35.77	0.24	-0.23	0.76
3,990.00	1.82	179.22	3,989.39	-39.01	0.22	-39.01	0.31	-0.28	-3.86
4,085.00	2.06	172.40	4,084.34	-42.21	0.47	-42.21	0.35	0.25	-7.18
4,180.00	1.86	173.89	4,179.28	-45.44	0.86	-45.44	0.22	-0.21	1.57
4,274.00	2.19	180.79	4,273.22	-48.75	1.00	-48.75	0.44	0.35	7.34
4,369.00	2.31	184.67	4,368.15	-52.47	0.82	-52.47	0.20	0.13	4.08
4,463.00	2.46	187.97	4,462.07	-56.36	0.38	-56.36	0.22	0.16	3.51
4,558.00	2.16	183.83	4,556.99	-60.16	-0.02	-60.16	0.36	-0.32	-4.36
4,653.00	0.51	302.45	4,651.97	-61.72	-0.50	-61.72	2.57	-1.74	124.86
4,748.00	1.19	313.30	4,746.96	-60.82	-1.57	-60.82	0.73	0.72	11.42
4,842.00	1.13	340.05	4,840.94	-59.28	-2.60	-59.28	0.57	-0.06	28.46
4,937.00	0.75	324.55	4,935.93	-57.89	-3.28	-57.89	0.48	-0.40	-16.32
5,032.00	1.56	354.30	5,030.91	-56.10	-3.77	-56.10	1.03	0.85	31.32
5,126.00	3.00	2.80	5,124.83	-52.37	-3.77	-52.37	1.57	1.53	9.04
5,221.00	2.25	5.05	5,219.73	-48.03	-3.49	-48.03	0.80	-0.79	2.37
5,315.00	1.81	7.92	5,313.67	-44.72	-3.12	-44.72	0.48	-0.47	3.05
5,409.00	2.82	1.36	5,407.59	-40.94	-2.86	-40.94	1.11	1.07	-6.98
5,503.00	2.13	0.92	5,501.51	-36.88	-2.78	-36.88	0.73	-0.73	-0.47
5,597.00	3.06	1.17	5,595.41	-32.62	-2.70	-32.62	0.99	0.99	0.27
5,692.00	2.44	3.92	5,690.30	-28.07	-2.51	-28.07	0.67	-0.65	2.89
5,787.00	1.69	359.17	5,785.24	-24.65	-2.39	-24.65	0.81	-0.79	-5.00
5,881.00	2.56	5.92	5,879.17	-21.18	-2.19	-21.18	0.96	0.93	7.18
5,975.00	1.88	12.42	5,973.10	-17.58	-1.65	-17.58	0.77	-0.72	6.91
6,069.00	3.25	354.17	6,067.01	-13.43	-1.59	-13.43	1.68	1.46	-19.41
6,164.00	2.75	354.30	6,161.87	-8.48	-2.09	-8.48	0.53	-0.53	0.14

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well NBU 922-18K2
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	KB ELEVATION @ 4925.50ft (HP 298)
Site:	NBU 922-18 PAD EFKL_ALL TGTS SET @ 25' rad	**MD Reference:**	KB ELEVATION @ 4925.50ft (HP 298)
Well:	NBU 922-18K2	**North Reference:**	Grid
Wellbore:	1	**Survey Calculation Method:**	Minimum Curvature
Design:	1	**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)
6,258.00	2.25	350.67	6,255.78	-4.42	-2.61	-4.42	0.56	-0.53	-3.86
6,352.00	1.81	352.67	6,349.73	-1.12	-3.10	-1.12	0.47	-0.47	2.13
6,447.00	1.06	350.05	6,444.70	1.23	-3.44	1.23	0.79	-0.79	-2.76
6,540.00	0.81	0.42	6,537.68	2.73	-3.58	2.73	0.32	-0.27	11.15
6,635.00	0.31	12.42	6,632.68	3.66	-3.52	3.66	0.54	-0.53	12.63
6,730.00	0.88	2.17	6,727.67	4.64	-3.44	4.64	0.61	0.60	-10.79
6,825.00	1.50	1.80	6,822.65	6.61	-3.37	6.61	0.65	0.65	-0.39
6,920.00	1.06	5.55	6,917.63	8.73	-3.25	8.73	0.47	-0.46	3.95
7,015.00	0.75	8.80	7,012.62	10.22	-3.07	10.22	0.33	-0.33	3.42
7,110.00	0.31	17.80	7,107.61	11.07	-2.90	11.07	0.47	-0.46	9.47
7,204.00	0.44	104.17	7,201.61	11.23	-2.47	11.23	0.56	0.14	91.88
7,299.00	0.31	62.30	7,296.61	11.26	-1.89	11.26	0.31	-0.14	-44.07
7,394.00	0.44	80.80	7,391.61	11.44	-1.30	11.44	0.19	0.14	19.47
7,489.00	0.38	83.05	7,486.60	11.53	-0.63	11.53	0.07	-0.06	2.37
7,582.00	0.13	101.67	7,579.60	11.55	-0.22	11.55	0.28	-0.27	20.02
7,677.00	0.44	182.92	7,674.60	11.16	-0.13	11.16	0.46	0.33	85.53
7,771.00	0.77	180.59	7,768.60	10.17	-0.16	10.17	0.35	0.35	-2.48
7,865.00	0.63	129.67	7,862.59	9.21	0.24	9.21	0.65	-0.15	-54.17
7,960.00	1.44	56.80	7,957.58	9.53	1.64	9.53	1.46	0.85	-76.71
8,055.00	1.50	72.42	8,052.55	10.56	3.82	10.56	0.43	0.06	16.44
8,149.00	1.63	75.30	8,146.51	11.27	6.29	11.27	0.16	0.14	3.06
8,244.00	1.69	54.55	8,241.47	12.42	8.73	12.43	0.63	0.06	-21.84
8,338.00	0.69	156.67	8,335.46	12.71	10.09	12.71	2.08	-1.06	108.64
8,433.00	1.13	158.92	8,430.44	11.31	10.65	11.31	0.46	0.46	2.37
8,527.00	0.69	288.80	8,524.44	10.63	10.45	10.63	1.77	-0.47	138.17
8,621.00	0.69	277.34	8,618.43	10.88	9.35	10.88	0.15	0.00	-12.19
8,716.00	0.44	260.42	8,713.43	10.89	8.42	10.90	0.31	-0.26	-17.81
8,811.00	0.19	229.92	8,808.43	10.73	7.94	10.73	0.31	-0.26	-32.11
8,905.00	0.19	276.92	8,902.43	10.65	7.67	10.65	0.16	0.00	50.00
9,000.00	0.56	326.67	8,997.42	11.06	7.26	11.06	0.48	0.39	52.37
9,126.00	0.69	328.80	9,123.42	12.22	6.53	12.22	0.10	0.10	1.69
9,220.00	0.69	317.55	9,217.41	13.12	5.85	13.12	0.14	0.00	-11.97
9,315.00	0.50	330.17	9,312.40	13.90	5.26	13.90	0.24	-0.20	13.28
9,409.00	0.50	320.17	9,406.40	14.58	4.79	14.58	0.09	0.00	-10.64
9,504.25	0.25	294.92	9,501.65	14.98	4.34	14.98	0.31	-0.26	-26.51
9,599.00	0.19	230.29	9,596.40	14.97	4.03	14.97	0.25	-0.06	-68.21
9,693.00	0.44	177.29	9,690.40	14.51	3.93	14.51	0.38	0.27	-56.38
9,788.00	0.50	199.05	9,785.39	13.75	3.81	13.75	0.20	0.06	22.91
9,841.00	0.59	160.92	9,838.39	13.28	3.82	13.28	0.69	0.17	-71.94
EXT. TD									
9,890.00	0.59	160.92	9,887.39	12.80	3.99	12.80	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
9,890.00	9,887.39	12.80	3.99	LAST SURVEY

Checked By: _____ Approved By: _____ Date: _____

Weatherford®

Weatherford International, Ltd
2000 Oil Field Drive
Casper, Wyoming 82604 USA
+1.307.268-7900 Main
+1.307.235.3958 Fax
www.weatherford.com

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Well Planning Denver Office:
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Robert Scott
Email: robert.scott@weatherford.com

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 page 2.*

5. Lease Serial No.
UTU-0359

6. If Indian, Allottee or Tribe Name
TRIBAL SURFACE

7. If Unit of CA/Agreement, Name and/or No.
UNIT #891008900A

1. Type of Well
☐ Oil Well ☑ Gas Well ☐ Other

8. Well Name and No.
NBU 922-18K2

2. Name of Operator
KERR McGEE OIL & GAS ONSHORE LP

9. API Well No.
4304739791

3a. Address
1368 SOUTH 1200 EAST VERNAL, UTAH 84078

3b. Phone No. *(include area code)*
435.781.7024

10. Field and Pool or Exploratory Area
NATURAL BUTTES

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*
NE/SW SEC. 18, T9S, R22E 2519'FSL, 1265'FWL

11. Country or Parish, State
UINTAH COUNTY, UTAH

12. CHECK THE APPROPRIATE BOX(ES) 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
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☑ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☑ Other FINAL DRILLING OPERATIONS
	☐ 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 of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must 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 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

FINISHED DRILLING FROM 2855' TO 9890' ON 01/22/2009. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. LEAD CMT W/381 SX PREM LITE II @11.0 PPG 3.38 YIELD. TAILED CMT W/1268 SX 50/50 POZ @14.3 PPG 1.31 YIELD. CLEAN UP LINES DROP PLUG & DISPLACE W/152.5 BBL CLAYTREAT WATER + MAGNACIDE BUMP PLUG 2900 PSI. FLOATS HOLDING OK. LOST CIRCULATION AFTER DROPPED PLUG NO CMT TO SURFACE BUT GOOD LIFT PRESSURE. R/D CSG/CMT EQUIP. CHANGE OUT ELEVATOR BAILS TO SET PACK OFF IN CSG HEAD SET PACK OFF & TEST SAME - GOOD. NIPPLE DOWN BOPS CLEAN PITS.

RELEASED H&P 298 RIG ON 01/24/2009 AT 1800 HRS.

14. I hereby certify that the foregoing is true and correct.
Name *(Printed/Typed)*
SHEILA UPCHEGO

Title REGULATORY ANALYST

Signature

Date 02/05/2009

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

RECEIVED
FEB 09 2009
DIV. OF OIL, GAS & MINING

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 page 2)

API Well No: 43047397910000

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 922-18K2

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

9. API NUMBER: 43047397910000

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: 2519 FSL 1265 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW 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: 10/15/2009	☐ 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: FOOTAGE UPDATE

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

THE OPERATOR WISHES TO INFORM ON UPDATED SURFACE FOOTAGE CALLS FOR THIS WELL. THE SURFACE LOCATION UNDERWENT MINOR ADJUSTMENTS DUE TO DRILLING RIG CONFIGURATIONS. THE SURFACE LOCATION AND BOTTOM HOLE CHANGED FROM 2519 FSL & 1265 FWL TO: 2545 FSL & 1223 FWL. PLEASE SEE THE ATTACHED REVISED SURVEY PLAT FOR ADDITIONAL INFORMATION.

Approved by the Utah Division of Oil, Gas and Mining

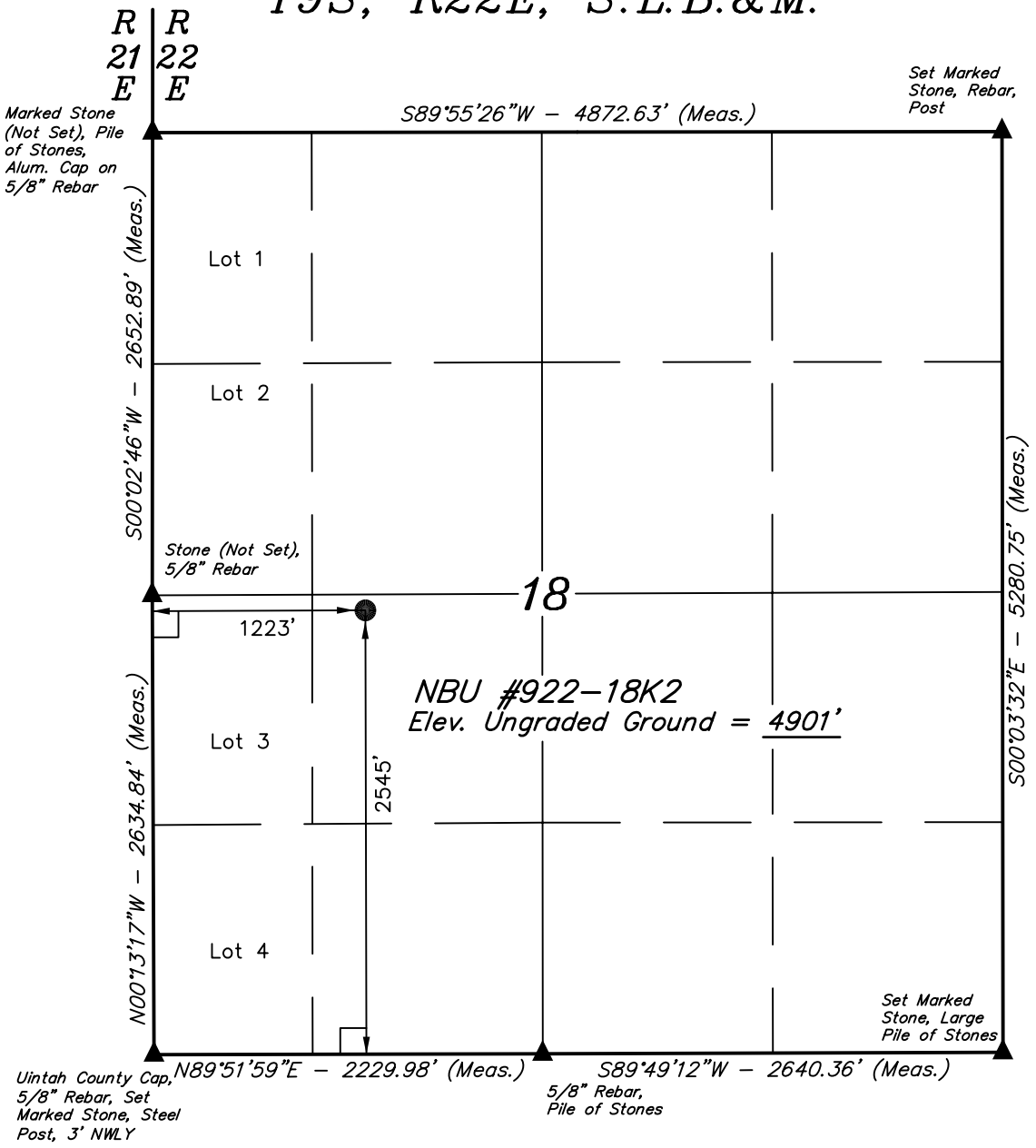
Date: October 19, 2009

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andy Lytle	720 929-6100	Regulatory Analyst
SIGNATURE N/A		**DATE** 10/15/2009

RECEIVED October 15, 2009

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



LEGEND:

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

(NAD 83)
LATITUDE = 40°02'08.61" (40.035725)
LONGITUDE = 109°29'10.91" (109.486364)
(NAD 27)
LATITUDE = 40°02'08.74" (40.035761)
LONGITUDE = 109°29'08.44" (109.485678)

Kerr-McGee Oil & Gas Onshore LP

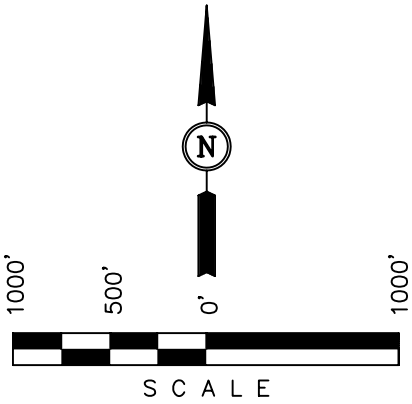
Well location, NBU #922-18K2, located as shown in the NE 1/4 SW 1/4 of Section 18, T9S, R22E, S.L.B.&M., Uintah County, Utah.

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

REVISED: 10-29-08

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

SCALE	DATE SURVEYED: 05-07-07	DATE DRAWN: 05-21-07
PARTY D.K. L.K. C.H.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE Kerr-McGee Oil & Gas Onshore LP	

API Well No: 43047397910000

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 922-18K2

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

9. API NUMBER: 43047397910000

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: 2545 FSL 1223 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW 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
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 11/4/2009	☐ 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
	☐ 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 SUBJECT WELL WAS PLACED ON PRODUCTION ON 11/04/2009 AT 9:00 A.M. PLEASE REFER TO THE ATTACHED CHRONOLOGICAL WELL HISTORY.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
November 10, 2009

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andy Lytle	720 929-6100	Regulatory Analyst
SIGNATURE N/A		**DATE** 11/5/2009

RECEIVED November 05, 2009

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-18K2 (BLUE WELL)	Spud Conductor: 11/3/2008	Spud Date: 12/25/2008
Project: UTAH-UINTAH	Site: NBU 922-18L PAD	Rig Name No: H&P 298/298, H&P 298/298
Event: DRILLING	Start Date: 12/1/2008	End Date: 1/24/2009
Active Datum: RKB @4,925.00ft (above Mean Sea Level)	UWI: NE/SW/0/9/S/22/E/18/0/0/6/PM/S/2,545.00/W/0/1,223.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
12/8/2008	-							
12/23/2008	9:00 - 0:00	15.00	MIRU	01	C	P		Skid rig - Conductor spacing 9' 4". When rig was skidded on last well there was some braces that were not put in, had to slide rig back and install braces to get width spacing right, then slid farword. Cut off flow line to make modification, welder machine gelling/freezing up, wait on another welder to finish modification. Install conductor & vibrating hose on mud line. Electrical problem with camp houses.
12/24/2008	0:00 - 1:00	1.00	MIRU	01	B	P		Install vibrating hose between mud line and MCC house
	1:00 - 1:00	0.00	MIRU					Install bottom section of 20" conductor pipe, pickup top section of conductor pipe and blot together. Pickup conductor pipe and install "O" ring in bottom section and set screws. Bolt flow line flange to conductor flange. Welder cut off flow line flange, then welding maching froze up. Called 2nd welder and he broke down on way to rig. Found 3rd welder
	6:00 - 18:00	12.00	MIRU	01	B	P		Prep to spud. Wait on welder 06:00 - 11:00. Installed valve in conductor, break fill up and discharge lines. Change out bails and elevators on top drive. Pickup directional tools from derrick, run in hole, run steam line between directional tools and conductor pipe to thaw out mud motor. Transfer mud from trip tanks and slug tank to active system. Clean trip tanks and blow down lines. Unload surface casing. Change out valve on mud line. Welder working on flow line, cut section out of flow line, weld on flange and install adapter spool to flow line. Hookup jet line and pad eyes.
	18:00 - 22:30	4.50	MIRU	01	B	P		Install gaskets in flow line spool. Install mouse hole sock. Pre-spud inspection. Pickup cross over sub
	22:30 - 23:30	1.00	MIRU	01	B	P		HSM, pressure test mud line and pumps to 3500 psi for 10 minutes each. Blow down mud line and kelly hose.
	23:30 - 0:00	0.50	MIRU	06	A	P		Make up bit and start picking up MWD tools
12/25/2008	0:00 - 1:30	1.50	PRPSPD	06	A	P		Pickup stand, make up bit, install MWD tool and scribe
	1:30 - 3:30	2.00	DRLSUR	02	D	P		Spud well with 12 1/4" bit at 01:30. Dril cement 103' - 111'. Drill formation 111' - 193', WOB 5-7k, RPM 40, GPM 449, Pump #1 SPM 100, SPP On/Off Bottom 1425/650, Torque On/Off Bottom 3/0, Mud Wt 9.3, Visc 35, Footage 82', FPH 41
	3:30 - 5:00	1.50	DRLSUR	19	A	S		While making connection hand dropped collar clamp wrench down hole. TOOH
	5:00 - 6:30	1.50	DRLSUR	06	A	S		TOOH. Laid down XO, MWD tool. Set directional tools in mouse hole and drain mud motor
	6:30 - 14:00	7.50	DRLSUR	19	A	S		Pickup magnet #1, TIH w/ stand DC and stand HWDP. Made 3 runs w/ flat bottom mill, not successful. Lay down 11 1/2" flat bottom mill and pickup 10 1/2" magnet w/ saw tooth collar, made 5 runs, on 4th run recovered 1 piece of fish, on 5th run recovered remainder of fish
	14:00 - 15:00	1.00	DRLSUR	19	A	S		Rig down fishing equipment
	15:00 - 15:30	0.50	DRLSUR	06	A	P		Scribe high side of motor, make up bit, break off Emitter sub, pickup MWD and Carrier sub
	15:30 - 16:00	0.50	DRLSUR	07	A	P		Rig Service

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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	16:00 - 16:30	0.50	DRLSUR	06	A	P		Make up xo subs and TIH tagged at 193'
	16:30 - 17:00	0.50	DRLSUR	03	E	P		Break circulation and wash bottom clean for 15 minutes
	17:00 - 0:00	7.00	DRLSUR	02	D	P		Drill 193' - 745', WOB 18, GPM 810, Pump #1 SPM 90, Pump #2 SPM 90, RPM 50, Motor RPM 129, SPP On/Off Bottom 2200/1840, Torque On/Off Bottom 6/2, Mud Wt 9.6, Viscosity 36, Footage 552, FPH 78.8 Slide Perameters: (379'-394'), (655'-667'), (1024'-1042'), WOB 18, GPM 810, Pump #1 SPM 90, Pump #2 SPM 90, RPM 0, Motor RPM 129, SPP On/Off Bottom 2050/1850, Torque On/Off Bottom 0/0
12/26/2008	0:00 - 10:00	10.00	DRLSUR	02	D	P		Drill 745' - 1588', WOB 10-20K, GPM 754, Pump #1 SPM 84, Pump #2 SPM 84, RPM 50, Motor RPM 120, SPP On/Off Bottom 2345/1930, Torque On/Off Bottom 9/2, Mud Wt 9.9, Viscosity 36, Footage 843, FPH 84.3 Slide Perameters: WOB 18, GPM 754, Pump #1 SPM 84, Pump #2 SPM 84, RPM 0, Motor RPM 120, SPP On/Off Bottom /, Torque On/Off Bottom 0/0
	10:00 - 10:30	0.50	DRLSUR	07	A	P		Rig Service
	10:30 - 0:00	13.50	DRLSUR					Drill 1588' - 2550', WOB 25K, GPM 754, Pump #1 SPM 84, Pump #2 SPM 84, RPM 65, Motor RPM 120, SPP On/Off Bottom 2400/1860, Torque On/Off Bottom 9/2, Mud Wt 9.6, Viscosity 38, Footage 962, FPH 71.3 Slide Perameters: WOB 18, GPM 754, Pump #1 SPM 84, Pump #2 SPM 84, RPM 0, Motor RPM 120, SPP On/Off Bottom /, Torque On/Off Bottom 0/0
12/27/2008	0:00 - 5:00	5.00	DRLSUR	02	D	P		Drill 2550' - 2855', WOB 25K, GPM 754, Pump #1 SPM 84, Pump #2 SPM 84, RPM 65, Motor RPM 120, SPP On/Off Bottom 2400/1860, Torque On/Off Bottom 9/2, Mud Wt 9.6, Viscosity 38, Footage 962, FPH 71.3 Slide Perameters: WOB 18, GPM 754, Pump #1 SPM 84, Pump #2 SPM 84, RPM 0, Motor RPM 120, SPP On/Off Bottom /, Torque On/Off Bottom 0/0
	5:00 - 6:30	1.50	DRLSUR	05	A	P		Circulate and condition hole. Build slug, fill trip tanks
	6:30 - 8:00	1.50	DRLSUR	06	D	P		HSM w/ rig crew. Pump slug. TOOH
	8:00 - 9:00	1.00	DRLSUR	03	A	S		Work tight hole at 173', 103', 1409'. ream w/o circulation due to drill string being plugged
	9:00 - 12:00	3.00	DRLSUR	06	E	S		TOOH, laid down MWD tool, break bit and set directional tools in mouse hole. Mud motor was plugged with small chinks of shale. I think rig crew transfered mud from upright and transfer a bunch of shale over also.
	12:00 - 12:30	0.50	DRLSUR	06	E	S		Clean rig floor
	12:30 - 13:00	0.50	DRLSUR	07	A	P		Rig Service
	13:00 - 15:30	2.50	DRLSUR	06	E	S		HSM w/ rig crew, make up bit, bit sub and TIH, tagged at 1825'
	15:30 - 17:00	1.50	DRLSUR	06	E	S		Wash and ream 30' to bottom. Circulate and condition hole. Build and pump slug high viscosity sweep. Build, pump slug and fill trip tanks
	17:00 - 21:00	4.00	DRLSUR	06	D	P		TOOH to run casing. Blow down mud lines. Break bit. Clean floor. Blow down mud lines to trip tanks. Rig down drilling bails
	21:00 - 23:00	2.00	DRLSUR	12	A	P		HSM w/ casing crews. Rig up casing crew and lay down machine
	23:00 - 0:00	1.00	DRLSUR	12	C	P		Run 9 5/8" surface casing

US ROCKIES REGION

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Project: UTAH-UINTAH	Site: NBU 922-18L PAD	Rig Name No: H&P 298/298, H&P 298/298
Event: DRILLING	Start Date: 12/1/2008	End Date: 1/24/2009
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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
12/28/2008	0:00 - 6:00	6.00	DRLSUR	12	C	P		Run 64 joints of 9 5/8" 36#/ft J55 LT&C casing, FMC DTO Wellhead, pup joint and landing joint. Total length 2839.91'. Landed at 2836.91'. Float collar at 2792.64'
	6:00 - 7:00	1.00	DRLSUR	05	D	P		Rig up circulating equipment and break circulation
	7:00 - 8:00	1.00	DRLSUR	12	A	P		HSM w/ casing crews and rig down casing equipment. Blow down mud lines
	8:00 - 9:30	1.50	DRLSUR	12	E	P		HSM w/ BJ cementing crew and rig crew. Rig up cementing equipment
	9:30 - 11:30	2.00	DRLSUR	12	E	P		Pressure test lines to 2000 psi. Pump 20 bbls mud clean. Cement casing in place w/ 312 sacks Lead Premium Lite II cement, 11.0 ppg, yield 3.38, water ratio 20.52 gallons per sack. Tailed in w/ 202 sacks class "G" cement, 1.8 ppg, yield 1.17, water ratio 5 gallons per sack. Displaced w/ 217.5 bbls fresh water, 1.5 bbls over did not pump plug, 10 bbls cement to pit, 650 psi differential pressure, good returns through out job. Bleed back .5 bbl, floats held. cement dropped.
	11:30 - 13:30	2.00	DRLSUR	12	E	P		Run 60' of 1" pipe from KB for top job. Could not get any deeper due to fluted landing collar and landing ring. Tried several time but was not successful.
	13:30 - 15:30	2.00	DRLSUR	12	E	P		Pump 100 sacks, 12 bbl slurry of class "G" cement at 15.8 ppg, yield 1.17, water ratio 5 gallons per sack.
	15:30 - 17:00	1.50	DRLSUR	12	E	P		HSM w/ BJ and rig down cementing equipment
	17:00 - 0:00	7.00	DRLSUR	01	E	P		Clean mud tanks. Pickup dog house stairs and pin, pickup beaver slide, pull out catwalk, pickup backyard stairs, rig down casing elevators, dock top drive and pull 1" cellar plates
12/29/2008	0:00 - 2:00	2.00	DRLSUR	01		P		Clean mud tanks, pumps and pulsation dampener. Check valves and seat in both pumps
	2:00 - 2:00	0.00	DRLSUR					RIG RELEASED AT 02:00 HOURS ON 12/29/08
12/30/2008	-							
1/15/2009	0:00 - 3:00	3.00	DRLPRO	01	C	P		PREP TO SKID RIG& SKID TO NBU 922-18K2
	3:00 - 7:30	4.50	DRLPRO	14	A	P		NU BOPE
	7:30 - 14:00	6.50	DRLPRO	15	A	P		TEST BOP,PIPE,BLIND RAMS,CHOKE LINE & ALL VALVES 5000# HIGH,250 LOW ANNULAR 2500,CSG 1500,WITNESSED BY CLIFF JOHNSON BLM
	14:00 - 14:30	0.50	DRLPRO	14	B	P		SET WEAR BUSHING
	14:30 - 15:30	1.00	DRLPRO	06	A	P		MOVE RENTAL HWDP TO OFFSIDE OF BOARD
	15:30 - 20:00	4.50	DRLPRO	06	A	P		PU BHA,TIH
	20:00 - 22:00	2.00	DRLPRO	02	F	P		DRILL CMT FLOAT & SHOE
	22:00 - 22:30	0.50	DRLPRO	02	B	P		DRILLING ROTARY SPUD 22:00 HRS 1/15/2009 DRILLING 2855-2885
	22:30 - 23:00	0.50	DRLPRO	14	B	P		INSTALL ROTATING HEAD
	23:00 - 0:00	1.00	DRLPRO	02	B	P		DRILLING 2885-2950=65 MW 9.0
1/16/2009	0:00 - 14:30	14.50	DRLPRO	02	B	P		DRILLING 2950-4558=1608=112.4 MW 9.3
	14:30 - 15:30	1.00	DRLPRO	05	C	P		CIRC BTMS UP /FTRIP PUMP SLUG,DROP SURVEY
	15:30 - 18:30	3.00	DRLPRO	06	A	P		,TOH FOR DIRECTIONAL TOOLS,L/D 61/2 DCS
	18:30 - 19:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	19:00 - 20:30	1.50	DRLPRO	08	B	X		CHANGE OUT ST-80 TORQUE CONTROL CABLE AND ADJ CABLES
	20:30 - 22:00	1.50	DRLPRO	06	A	P		FINISH L/D DCS
	22:00 - 0:00	2.00	DRLPRO	06	A	P		PU DIRECTIONAL TOOLS IH TO CSG SHOE 2800'
1/17/2009	0:00 - 1:00	1.00	DRLPRO	06	A	P		CUT DRILL LINE

US ROCKIES REGION

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Project: UTAH-UINTAH	Site: NBU 922-18L PAD	Rig Name No: H&P 298/298, H&P 298/298
Event: DRILLING	Start Date: 12/1/2008	End Date: 1/24/2009
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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	1:00 - 3:30	2.50	DRLPRO	06	A	P		TRIP IN HOLE FROM 2800 TO 4556 TAKING SURVEYS EVERY 100' SURVEY @2953' 'INC 1.33 DEG AZI 173.78 SURVEY @ 4463' INC 2.46 DEG AZI 187.97
	3:30 - 16:00	12.50	DRLPRO	02	D	P		DRILLING,ROTATE & SLIDE, F/ 4556-5456 =900'=72 FPH MW 9.5 SURVEY 5032' INC 1.56 AZI 354.30
	16:00 - 16:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	16:30 - 0:00	7.50	DRLPRO	02	D	P		DRILLING ROTATE,SLIDE F/ 5456-6030=574 FPH MW 9.8 SURVEY 5975 INC 1.88 AZI 12.42
1/18/2009	0:00 - 11:00	11.00	DRLPRO	02	D	P		DRILLING ROTATE & SLIDE 6030-6795=765=69.5 FPH MW 9.9
	11:00 - 11:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	11:30 - 19:00	7.50	DRLPRO	02	D	P		DRILLING ROTATE 6795-7175=380=50.6 MW 10.0
	19:00 - 20:00	1.00	DRLPRO	05	C	P		CBU F/ BIT TRIP MIX SLUG
	20:00 - 0:00	4.00	DRLPRO	06	A	P		TOH TIGHT SPOTS 7160,5000
1/19/2009	0:00 - 2:30	2.50	DRLPRO	06	A	P		TIH,BREAK CIRC @ 2800',CIH
	2:30 - 3:00	0.50	DRLPRO	03	D	P		R & R 55' TO BTM 5' FILL
	3:00 - 0:00	21.00	DRLPRO	02	B	P		DRILLING ROTATE SLIDE F/7175-8198=1023=48.7 MW 10.0
1/20/2009	0:00 - 17:00	17.00	DRLPRO	02	B	P		DRILLING ROTATE & SLIDE 8198-8860=662=38.9 FPH
	17:00 - 17:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	17:30 - 0:00	6.50	DRLPRO	02	B	P		DRILLING ROTATE & SLIDE 8860-9085=225=34.6 MW 11.0
1/21/2009	0:00 - 2:30	2.50	DRLPRO	02	D	P		DRILL 9085-9121, 36' = 14.4 FPH, MW 11.0#
	2:30 - 3:30	1.00	DRLPRO	05	C	P		CIRCULATE PRIOR TO TRIP OUT, TAKE SUREVY, MAKE SLUG
	3:30 - 4:30	1.00	DRLPRO	08	A	Z		THAW OUT FROZEN FILLUP LINE & KILL LINE
	4:30 - 7:00	2.50	DRLPRO	06	A	P		TRIP OUT BIT #2, WORK THROUGH TIGHT SPOTS 6575, 6300, 5000, TRIP OUT.
	7:00 - 7:30	0.50	DRLPRO	06	A	P		PULL ROTATING HEAD RUBBER
	7:30 - 10:30	3.00	DRLPRO	06	A	P		POOH TO MONEL
	10:30 - 11:30	1.00	DRLPRO	06	J	P		INSPECT MWD ANTENNA IN MONEL, BREAK BIT #2, M/U BIT #3
	11:30 - 12:00	0.50	DRLPRO	08	A	P		SAFETY PIN FELL FROM DERRICK, SAFETY STANDDOWN & CHECK ALL PINS FOR MISSING KEEPER IN DERRICK
	12:00 - 12:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	12:30 - 16:00	3.50	DRLPRO	06	A	P		TRIP IN BIT #3 TO LEDGE @ 4980
	16:00 - 16:30	0.50	DRLPRO	05	A	P		WASH THROUGH BRIDGE @ 4980-5070
	16:30 - 19:30	3.00	DRLPRO	06	A	P		TRIP IN HOLE TO
	19:30 - 20:30	1.00	DRLPRO	05	A	P		iNSTALL ROTATING HEAD, WASH TO TD 9121
	20:30 - 0:00	3.50	DRLPRO	02	D	P		DRILLING 9121-9245 = 124' = 35.4 FPH, MW 11.2#, 6% LCM
1/22/2009	0:00 - 3:30	3.50	DRLPRO	02	D	P		DRILL 9245-9399, 154' = 44 FPH, MW 11.4#, VIS 50, 6% LCM, 90 SPM, GPM 404,SPP ON/OFF 2315/2080, WOB 18K, TORQUE ON/OFF 9K/6K, ST WT 220K UP, 179K DOWN, 200K ROT, 55 RPM TOP DRIVE, 64 RPM MOTOR
	3:30 - 4:00	0.50	DRLPRO	22	G	X		BUILD VOLUME, INC LCM
	4:00 - 16:30	12.50	DRLPRO	02	D	P		DRILL 9399-9837 = 438' = 35 FPH, MW 11.2#, LCM 12%, VIS 44, TORQUE ON/OFF 9/5K, SPP ON/OFF 2150/1890, WOB 18K,ST WT 225K UP, 185K DOWN, 207K ROT, 55 RPM TOP DRIVE, 64 RPM MOTOR
	16:30 - 17:00	0.50	DRLPRO	07	A	P		DAILY RIG SERVICE

US ROCKIES REGION

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	17:00 - 19:00	2.00	DRLPRO					DRILL 9837-9890 = 53' = 26.5 FPH, MW 11.4#, 40 VIS, TORQUE ON/OFF 9/3K, SPP ON/OFF 2190/1971, WOB 18K,ST WT 220K UP, 179K DOWN, 200K ROT, 55 RPM TOP DRIVE, 64 RPM MOTOR
	19:00 - 21:00	2.00	DRLPRO	05	C	P		PUMP 50 BBL HI-VIS SWEEP, CIRCULATE B/U X 2
	21:00 - 0:00	3.00	DRLPRO	06	E	P		PUMP SLUG, POOH FOR WIPER TRIP-TIGHT 9870-9835, BALANCE OF HOLE GOOD
1/23/2009	0:00 - 3:00	3.00	DRLPRO	06	E	P		WIPER TRIP UP TO 4923, TIGHT 9870-9835 (UP TO +100K), RIH, HIT BRIDGE @ 6565, P/U AND PASS AGAIN WITHOUT PROBLEM, CONTINUE TO BOTTOM, 5' FILL ON BOTTOM
	3:00 - 5:00	2.00	DRLPRO	05	C	P		CIRCULATE B/U, 20' FLARE ON B/U, CCH, MW 11.5#
	5:00 - 11:00	6.00	DRLPRO	06	A	P		PUMP SLUG, POOH TO 5880, PULL ROT RUBBER, POOH TO SHOE, FLOW CHECK-OK, POOH TO DIRECTIONAL TOOLS
	11:00 - 12:00	1.00	DRLPRO	06	J	P		POOH MWD TOOL, BRK BIT, L/D MUD MOTOR
	12:00 - 12:30	0.50	DRLPRO	07	A	P		SERVICE RIG
	12:30 - 13:00	0.50	DRLPRO	06	A	P		PULL WEAR BUSHING
	13:00 - 21:00	8.00	DRLPRO	11	D	P		HOLD SAFETY MEETING WITH HALLIBUTON, R/U & RUN TRIPLE COMBO, BRIDGE OUT @ 6530, POOH, RUN IN SLICK, BRIDGE OUT SAME PLACE, LOG UP, R/D HALLIBURTON
	21:00 - 23:00	2.00	DRLPRO	12	A	P		SAFETY MEETING WITH TESCO, R/U CASING EQUIPMENT
	23:00 - 0:00	1.00	DRLPRO	12	C	P		M/U FLOAT & SHOE, RUN 4-1/2 11.6# I-80 PRODUCTION CASING
1/24/2009	0:00 - 6:00	6.00	DRLPRO	12	C	P		RUN 243 JTS 4-1/2" 11.6#, I-80 PRODUCTION CASING, SHOE @ 9880, SET IN HANGER WITH 83000#
	6:00 - 8:30	2.50	DRLPRO	05	D	P		BRK CIRCULATION, CIRCULATE CASING BOTTOMS UP, 85 SPM, 850 PSI, MW 11.5#, 41 VIS, ESTIMATED 7000 UTS GAS ON BOTTOMS UP WITH 8-12' FLARE, SAFETY MEETING WITH BJ PRIOR TO RIGGING UP CEMENT EQUIPMENT
	8:30 - 12:00	3.50	DRLPRO	12	E	P		TEST LINES TO 4500 PSI, PUMP 20 SX 9.5# SCAVENGER, 381 SX 11# LEAD, 1268 SX 14.3# TAIL, CLEANUP LINES, DROP PLUG & DISPLACE WITH 152.5 BBL CLAYTREAT WATER WITH MAGNACIDE, BUMP PLUG 2900 PSI, FLOATS HOLDING OKAY, LOST CIRCULATION AFTER DROPPED PLUG, NO CEMENT TO SURFACE BUT GOOD LIFT PRESSURE
	12:00 - 13:30	1.50	DRLPRO	12	E	P		R/D CASING/CEMENT EQUIPMENT, CHANGE OUT ELEVATOR BAILS TO SET PACKOFF IN CASING HEAD, SET PACKOFF & TEST SAME-GOOD
	13:30 - 18:00	4.50	DRLPRO	14	A	P		NIPPLE DOWN BOP'S ETC, CLEAN PITS, RELEASE RIG TO NBU 922-18K1BS @ 1800 HRS 1/24/09

US ROCKIES REGION

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Project: UTAH-UINTAH	Site: NBU 922-18L PAD	Rig Name No: MILES 2/2
Event: COMPLETION	Start Date: 11/2/2009	End Date: 11/3/2009
Active Datum: RKB @4,925.00ft (above Mean Sea Level)	UWI: NE/SW/0/9/S/22/E/18/0/0/6/PM/S/2,545.00/W/0/1,223.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
10/23/2009	7:00 - 17:00	10.00	COMP	33	D	P		MIRU B&C QUICK TEST. PUMP WELL UP T/ 7000# HELD FOR ABOUT 2 MIN. THEN EXTENTION SPOOL PARTED . FRAC VALVES SHOT UP ABOUT 15' IN THE AIR & CAME ATRAIT BACK DOWN. AFTER PSI WAS GONE. FOUND THAT TBG HEAD EXTENTION SPOOL HAD PARTED. CALLED FMC WELL HEAD & LISA COOK THE SAFTY PERSON FOR ANADARKO. FMC PULLED ON LOC. ATTM T/ REMOVE TBG HEAD F/ CSG HEAD W/ FORK LIFT. COULD NOT GET TBG HEAD T/ COME OFF. MADE SEVERAL ATTM. WOULD NOT COME OFF. COVER WELL. ((IN THE :AM FMC WILL BRING NEW WELL HEAD.))
10/24/2009	7:00 - 11:00	4.00	COMP	47	C	P		MIRU WESTROC WELDER & BACKHOE. FILL OUT HOT WORK PERMIT. DIG OUT AROUND WELL HEAD W/ BACKHOE. WELD SOME PULLING EARS ON T/ TBG HEAD. HOOK UP FORK LIFT T/ PULLING EARS. PULL TBG HEAD OFF. SEND DEFECTIVE TBG HEAD W/ FMC. REPLACE 18" TBG HEAD W/ 32" TBG HEAD. SWI.
10/26/2009	7:00 - 7:30	0.50	COMP	48		P		HSM. SIME OPS.
	7:30 - 20:08	12.63	COMP	37	B	P		MIRU B&C QUICK TEST. PSI TEST CSG & BOTH FRAC VALVES T/ 7000#. GOOD TEST. BLEED OFF PSI. MOVE OVER T/ YELLOW WELL. MIRU CUTTER'S WL & SCHLUMBERGER FRAC SERV. STG 1) PU 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH PERF F/ 9694'-98', 4 SPF, 16 HOLES. 9550'-52', 4 SPF, 8 HOLES. 9462'-66', 3 SPF, 12 HOLES. 9452'-54', 3 SPF, 6 HOLES. POOH. SWI. WINTERIZE WELL HEAD.

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-18K2 (BLUE WELL)	Spud Conductor: 11/3/2008	Spud Date: 12/25/2008
Project: UTAH-UINTAH	Site: NBU 922-18L PAD	Rig Name No: MILES 2/2
Event: COMPLETION	Start Date: 11/2/2009	End Date: 11/3/2009
Active Datum: RKB @4,925.00ft (above Mean Sea Level)	UWI: NE/SW/0/9/S/22/E/18/0/0/6/PM/S/2,545.00/W/0/1,223.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
10/27/2009	7:00 - 23:59	16.98	COMP	36	B	P		STG 1) OPEN WELL 133# BEG PUMPING, BRK @ 4680# @ 6.4 BPM. SD ISIP 3164# FG .76. BEG FRAC, BULL HEAD 250 GAL 15% ACID. PUMP 64,098# 30/50 WHITE & TAIL IN W/ 5,000# 20/40 TLC. SD ISIP 3031# FG .75. SWI. X-OVER T/ RED WELL. STG 2)PU 4 1/2 8K HAL CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 9376' P/U PERF F/ 9342'-46', 3 SPF, 12 HOLES. 9278'-80', 4 SPF, 8 HOLES. 9254'-56', 4 SPF, 8 HOLES. 9198'-00', 3 SPF, 6 HOLES. 9174'-76', 3 SPF, 6 HOLES. POOH. OPEN WELL 2012#. BEG PUMPING, BRK @ 3469# @ 6.4 BPM. SD ISIP 2419# FG . 69. BEG FRAC, EST INJT RT @ 51.5 BPM @ 5151# = 95% PERF'S OPEN. PUMP 79,717# 30/50 WHITE & TAIL IN W/ 5,000# 20/40 TLC. SD ISIP 2922# FG .75. SWI. X-OVER T/ RED WELL. STG 3) PU 4 1/2 8K HAL CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 9,121' P/U PERF F/ 9088'-91', 3 SPF, 9 HOLES. 9012'-16', 3 SPF, 12 HOLES. 8926'-30', 3 SPF, 12 HOLES. 8864'-66', 3 SPF, 6 HOLES. POOH. WHP 2,236 PSI, BRK 2,640 PSI @ 5.4 BPM. ISIP 2,424 PSI, FG .70. PUMP 100 BBLS @ 51.4 BPM @ 4,784 PSI = 100% HOLES OPEN. MP 5,290 PSI, MR 51.8 BPM, AP 4,255 PSI, AR 49.4 BPM, ISIP 2,635 PSI, FG .72, NPI 211 PSI. PMP 2,282 BBLS SW & 86,703 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 91,703 LBS, STG 4) PU 4 1/2" HAL CBP & 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 120 DEG PHASING. RIH SET CBP @ 8,818' & PERF 8,786' - 88' 3SPF, 8,711' - 16' 3SPF, 8,616' - 20' 3SPF, 8,588' - 90' 3SPF. WHP 1,886 PSI, BRK 3,575 PSI @ 6.3 BPM. ISIP 2,640 PSI, FG .73. PUMP 100 BBLS @ 51.5 BVPM @ 4,892 PSI = 100% HOLES OPEN. MP 5,439 PSI, MR 51.9 BPM, AP 4,422 PSI, AR 50.7 BPM, ISIP 2,710 PSI, FG .74, NPI 70 PSI. PMP 2,166 BBLS SW & 81,565 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 86,565 LBS, STG 5) PU 4 1/2" HAL CBP & 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 & 120 DEG PHASING. RIH SET CBP @ 8,502' & PERF 8,468' - 72' 4SPF, 8,434' - 36' 4SPF, 8,388' - 92' 3SPF, 8,356' - 58' 3SPF. WHP 2,188 PSI, BRK 2,519 PSI @ 6.4 BPM. ISIP 2,388 PSI, FG .71. PUMP 100 BBLS @ 51.5 BVPM @ 5,000 PSI = 86% HOLES OPEN.

Well: NBU 922-18K2 (BLUE WELL)	Spud Conductor: 11/3/2008	Spud Date: 12/25/2008
Project: UTAH-UINTAH	Site: NBU 922-18L PAD	Rig Name No: MILES 2/2
Event: COMPLETION	Start Date: 11/2/2009	End Date: 11/3/2009
Active Datum: RKB @4,925.00ft (above Mean Sea Level)	UWI: NE/SW/0/9/S/22/E/18/0/0/6/PM/S/2,545.00/W/0/1,223.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
								MP 5,587 PSI, MR 52 BPM, AP 4,341 PSI, AR 47.3 BPM, ISIP 2,630 PSI, FG .74, NPI 242 PSI. PMP 1,435 BBLS SW & 53,732 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 58,732 LBS, STG 6) PU 4 1/2" HAL CBP & 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 & 120 DEG PHASING. RIH SET CBP @ 8,214' & PERF 8,180' - 84' 4SPF, 8,116' - 18' 4SPF, 8,058' - 62' 3SPF, 8,000' - 02' 3SPF. 42 HOLES WHP 1,872 PSI, BRK 3,085 PSI @ 6.2 BPM. ISIP 2,258 PSI, FG .71. PUMP 100 BBLS @ 56.2 BVPM @ 4,930 PSI = 96% HOLES OPEN. MP 5,846 PSI, MR 56.6 BPM, AP 4,740 PSI, AR 51.7 BPM, ISIP 2,359 PSI, FG .73, NPI 101 PSI. PMP 758 BBLS SW & 23,423 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 28,423 LBS, STG 7) PU 4 1/2" HAL CBP & 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 & 120 DEG PHASING. RIH SET CBP @ 7,974' & PERF 7,940' - 44' 3SPF, 7,900' - 02' 4SPF, 7,872' - 74' 4SPF, 7,804' - 06' 4SPF, 7,780' - 82' 3SPF, 42 HOLES. SWI SDFN
10/28/2009	6:30 - 7:00	0.50	COMP	48		P		HSM. FRACING & PERFORATING
	7:00 - 7:00	0.00	COMP	36	B	P		STG 7) WHP 1561PSI, BRK 2564 PSI @ 6.4 BPM. ISIP 1832 PSI, FG .66. PUMP 100 BBLS @ 51.5 BPM @ 4471 PSI = 79% HOLES OPEN. MP 4833 PSI, MR 51.7 BPM, AP 4035 PSI, AR 47.7 BPM, ISIP 2306 PSI, FG ..72, NPI 474 PSI. PMP 1207 BBLS SW & 44,512 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 49,512 LBS, SWI. FINISH THIS WELL. X-OVER T/ RED WELL. PU 4 1/2 8K HAL CBP. RIH SET KILL PLUG @ 7730'. POOH, SWI.
11/2/2009	7:00 - 7:30	0.50	COMP	48		P		RIG DWN, RU
	7:30 - 17:30	10.00	COMP	44		P		MIRU, ND FRAC VALVE, NU BOP'S, TEST BOP'S 3000#, PU TBG, RIH OOO JTS 4.7# L-80 TBG , TAG 1ST PLUG. PLUG #1 7730' 10' SAND 5 MIN 500# KICK PLUG #2 7974' 25' SAND 5 MIN 200# KICK PLUG #3 8214' 20' SAND 15 MIN 300# KICK PLUG #4 8502' 30' SAND 5 MIN 400# KICK TURNED WELL TO FLOW BACK FOR NIGHT.
11/3/2009	7:00 - 7:30	0.50	COMP	48		P		DRILLING PLUGS

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-18K2 (BLUE WELL)	Spud Conductor: 11/3/2008	Spud Date: 12/25/2008
Project: UTAH-UINTAH	Site: NBU 922-18L PAD	Rig Name No: MILES 2/2
Event: COMPLETION	Start Date: 11/2/2009	End Date: 11/3/2009
Active Datum: RKB @4,925.00ft (above Mean Sea Level)	UWI: NE/SW/0/9/S/22/E/18/0/0/6/PM/S/2,545.00/W/0/1,223.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:30 - 7:30	0.00	COMP	44		P		CIRC WELL, PU TBG DRILL PLUGS. PLUG #5 8818' 25' SAND 10 MIN 400# KICK PLUG #6 9121' 30' SAND 8 MIN 400# KICK PLUG #7 9376' 30' SAND 10 MIN 400# KICK RIH TO 9718' TAGGED FILL305 JTS. PU PWR SWIVIL DRILL OUT TO 9815' HIT SOLID CIRC BOTTOMS UP, POOH LAY DWN 23 JTS TO 9136.76 287 JTS, LAND TBG.287 JTS L-80 4.7# TBG, XN SN 1.875, POBS 1300# TURN TO FLOW BACK CREW 12:15 PM RDMO TO NBU 922-18L2BS YELLOW PAD.
11/4/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 2750#, TP 1700#, 20/64" CK, 45 BWPH, TRACE SAND, LIGHT GAS TTL BBLS RECOVERED: 3509 BBLS LEFT TO RECOVER: 8548
	9:00 -		PROD	50				WELL TURNED TO SALE @ 0900 HR ON 11/4/09 - FTP 1800#, CP 3050#, 1.0 MCFD, 45 BWPD, 20/64 CK
11/5/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 3100#, TP 2000#, 20/64" CK,28 BWPH, TRACE SAND, 1343 GAS TTL BBLS RECOVERED: 4362 BBLS LEFT TO RECOVER: 7695

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. 891008900A

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 922-18K2

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

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

9. API Well No. 43-047-39791

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

At surface NESW 2545FSL 1223FWL 40.03576 N Lat, 109.48568 W Lon

At top prod interval reported below NESW 2545FSL 1223FWL 40.03576 N Lat, 109.48568 W Lon

At total depth NESW 2558 FSL 1227 FWL 2545FSL 1223FWL 40.03576 N Lat, 109.48568 W Lon

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 11/03/2008

15. Date T.D. Reached 01/22/2009

16. Date Completed ☐ D & A ☒ Ready to Prod. 11/04/2009

17. Elevations (DF, KB, RT, GL)* 4899 GL

18. Total Depth: MD 9890 TVD 9887

19. Plug Back T.D.: MD 9808 TVD 9805

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each) BHV-CHI TRIPLE COMBO, HRI-SDL-DSN CBL

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		2839		614			
7.875	4.500 I-80	11.6		9852		1649			

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	9139							

25. Producing Intervals WSMVD

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) MESAVERDE	7780	9698	7780 TO 9698	0.360	286	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
7780 TO 9698	PMP 11,752 BBLS SLICK H20 & 467,750 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
11/04/2009	11/10/2009	24	→		1990.0	384.0			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	1479	2220.0	→		1990	384		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 #78266 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	1788				
MAHOGANY	2552				
WASATCH	5083	7771			
MESAVERDE	7866	9707			

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 #78266 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 12/02/2009

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 ****

Anadarko
Petroleum Corporation

ANADARKO PETROLEUM CORP.

UINTAH COUNTY, UTAH (nad 27)
NBU 922-18 PAD EFKL_ALL TGTS SET @ 25' rad
NBU 922-18K2

1

Survey: FINAL

Standard Survey Report

23 January, 2009

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Weatherford®

Anadarko E&P Company LP

NBU 922-18K2
UINTAH COUNTY, UTAH (nad 27)
SEC 18 T9S R22E
2545' FSL, 1223' FWL
40° 2' 8.740 N
109° 29' 8.440 W

Weatherford

WELL DETAILS: NBU 922-18K2						
			Ground Level:	4899.00		
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	14542670.05	2064302.49	40° 2' 8.740 N	109° 29' 8.440 W	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	2765.00	0.75	182.80	2764.90	-4.82	-0.02	0.00	0.00	-4.82	
2	2955.00	0.75	182.80	2954.88	-7.30	-0.14	0.00	0.00	-7.30	
3	3036.57	0.07	1.20	3036.45	-7.79	-0.16	1.00	179.87	-7.79	
4	9830.13	0.07	1.20	9830.00	0.00	0.00	0.00	0.00	0.00	

Survey: Survey #1 (NBU 922-18K2/1)								
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
9890.00	0.59	160.92	9887.39	12.80	3.99	0.00	0.00	12.80

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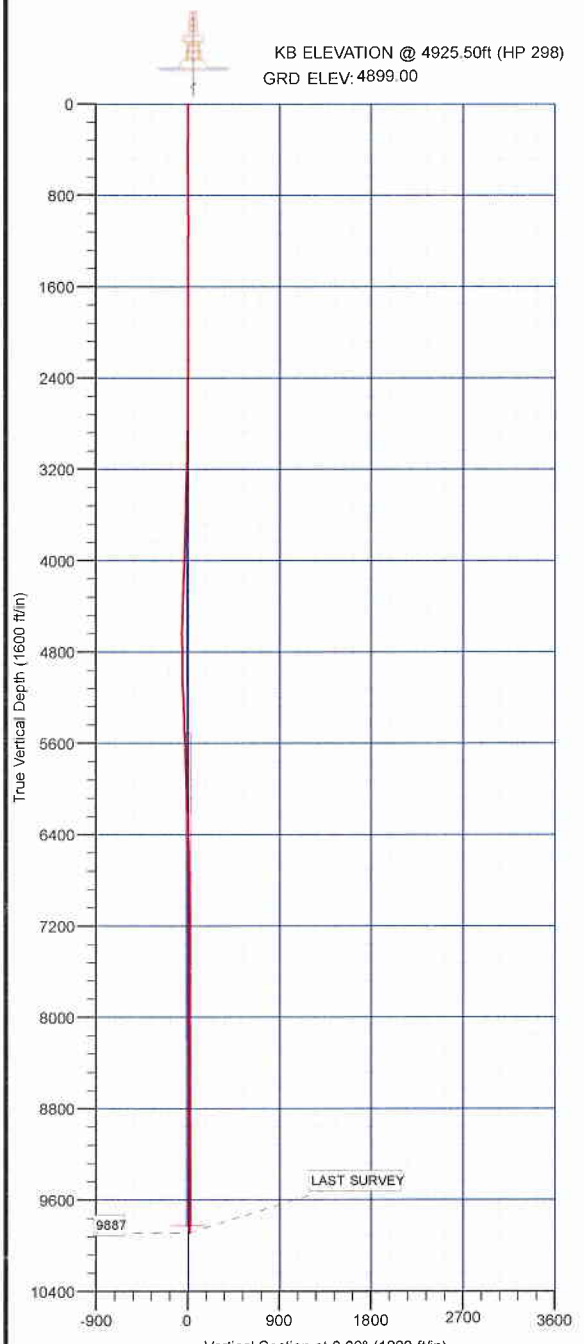

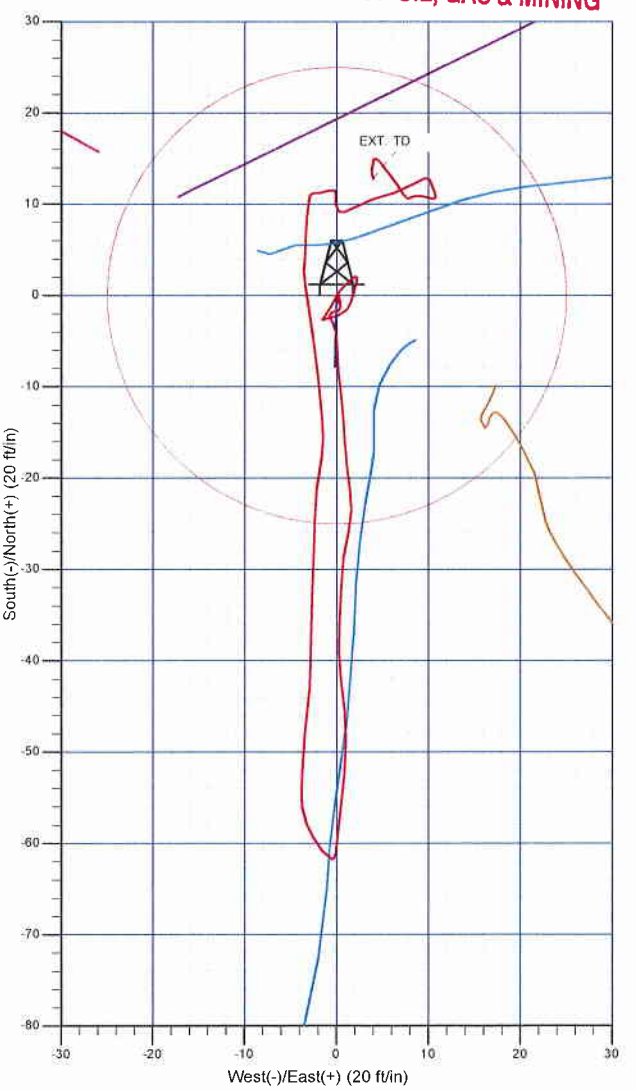

Survey: Survey #1 (NBU 922-18K2/1)

Created By: Robert H. Scott

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well NBU 922-18K2
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	KB ELEVATION @ 4925.50ft (HP 298)
Site:	NBU 922-18 PAD EFKL_ALL TGTS SET @ 25' rad	**MD Reference:**	KB ELEVATION @ 4925.50ft (HP 298)
Well:	NBU 922-18K2	**North Reference:**	Grid
Wellbore:	1	**Survey Calculation Method:**	Minimum Curvature
Design:	1	**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 922-18 PAD EFKL_ALL TGTS SET @ 25' rad, SEC 18 T9S R22E

Site Position:		**Northing:**	14,542,660.22 ft	**Latitude:**	40° 2' 8.640 N
From:	Lat/Long	**Easting:**	2,064,319.77 ft	**Longitude:**	109° 29' 8.220 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	0.00 in	**Grid Convergence:**	0.97 °

Well NBU 922-18K2,

Well Position	**+N/-S**	0.00 ft	**Northing:**	14,542,670.05 ft	**Latitude:**	40° 2' 8.740 N
	+E/-W	0.00 ft	**Easting:**	2,064,302.49 ft	**Longitude:**	109° 29' 8.440 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,899.00 ft

Wellbore 1

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	BGGM2007	12/18/2008	11.42	65.96	52,586

Design 1

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	0.00

Survey Program **Date** 1/23/2009

From (ft)	**To (ft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
141.00	9,890.00	Survey #1 (1)	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
141.00	0.52	207.10	141.00	-0.57	-0.29	-0.57	0.37	0.37	0.00
234.00	0.56	211.26	233.99	-1.33	-0.72	-1.33	0.06	0.04	4.47
327.00	0.81	215.67	326.99	-2.26	-1.34	-2.26	0.27	0.27	4.74
419.00	0.25	56.42	418.98	-2.67	-1.55	-2.67	1.14	-0.61	-173.10
511.00	0.50	80.00	510.98	-2.49	-0.99	-2.49	0.31	0.27	25.63
603.00	0.88	70.17	602.98	-2.18	0.07	-2.18	0.43	0.41	-10.68
695.00	0.69	41.67	694.97	-1.53	1.10	-1.53	0.47	-0.21	-30.98
788.00	0.44	9.55	787.96	-0.76	1.54	-0.76	0.42	-0.27	-34.54
880.00	0.63	19.30	879.96	0.07	1.76	0.07	0.23	0.21	10.60
972.00	1.06	13.30	971.95	1.37	2.12	1.37	0.48	0.47	-6.52
1,064.00	0.38	249.80	1,063.94	2.09	2.03	2.09	1.42	-0.74	-134.24

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well NBU 922-18K2
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	KB ELEVATION @ 4925.50ft (HP 298)
Site:	NBU 922-18 PAD EFKL_ALL TGTS SET @ 25' rad	**MD Reference:**	KB ELEVATION @ 4925.50ft (HP 298)
Well:	NBU 922-18K2	**North Reference:**	Grid
Wellbore:	1	**Survey Calculation Method:**	Minimum Curvature
Design:	1	**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)
1,157.00	0.44	223.04	1,156.94	1.73	1.50	1.73	0.21	0.06	-28.77
1,251.00	0.56	231.42	1,250.94	1.18	0.90	1.18	0.15	0.13	8.91
1,346.00	0.75	211.67	1,345.93	0.36	0.21	0.36	0.31	0.20	-20.79
1,440.00	0.25	150.17	1,439.93	-0.34	-0.01	-0.34	0.71	-0.53	-65.43
1,536.00	0.23	90.25	1,535.93	-0.53	0.28	-0.53	0.25	-0.02	-62.42
1,631.00	0.13	207.55	1,630.93	-0.62	0.42	-0.62	0.33	-0.11	123.47
1,725.00	0.19	240.17	1,724.93	-0.79	0.24	-0.79	0.11	0.06	34.70
1,820.00	0.13	3.17	1,819.93	-0.77	0.11	-0.77	0.30	-0.06	129.47
1,914.00	0.38	0.42	1,913.93	-0.35	0.12	-0.35	0.27	0.27	-2.93
2,009.00	0.25	13.17	2,008.92	0.17	0.17	0.17	0.15	-0.14	13.42
2,103.00	0.63	178.67	2,102.92	-0.15	0.22	-0.15	0.93	0.40	176.06
2,198.00	0.63	162.42	2,197.92	-1.17	0.39	-1.17	0.19	0.00	-17.11
2,293.00	0.44	273.80	2,292.92	-1.64	0.19	-1.64	0.94	-0.20	117.24
2,388.00	0.56	244.92	2,387.91	-1.81	-0.60	-1.81	0.29	0.13	-30.40
2,483.00	0.44	136.44	2,482.91	-2.27	-0.77	-2.27	0.86	-0.13	-114.19
2,577.00	0.63	166.05	2,576.91	-3.04	-0.39	-3.04	0.35	0.20	31.50
2,672.00	0.44	157.17	2,671.90	-3.88	-0.12	-3.88	0.22	-0.20	-9.35
2,765.00	0.75	182.80	2,764.90	-4.82	-0.02	-4.82	0.43	0.33	27.56
2,953.00	1.33	173.78	2,952.86	-8.22	0.16	-8.22	0.32	0.31	-4.80
3,047.00	1.59	173.38	3,046.83	-10.60	0.43	-10.60	0.28	0.28	-0.43
3,142.00	1.66	176.00	3,141.80	-13.28	0.68	-13.28	0.11	0.07	2.76
3,235.00	1.64	175.84	3,234.76	-15.95	0.87	-15.95	0.02	-0.02	-0.17
3,330.00	1.59	174.05	3,329.72	-18.62	1.10	-18.62	0.07	-0.05	-1.88
3,425.00	1.49	171.65	3,424.69	-21.15	1.42	-21.15	0.13	-0.11	-2.53
3,519.00	1.38	179.17	3,518.66	-23.49	1.61	-23.49	0.23	-0.12	8.00
3,613.00	1.61	195.45	3,612.62	-25.89	1.28	-25.89	0.51	0.24	17.32
3,707.00	1.91	187.41	3,706.58	-28.72	0.72	-28.72	0.41	0.32	-8.55
3,801.00	2.31	182.18	3,800.52	-32.17	0.45	-32.17	0.47	0.43	-5.56
3,895.00	2.09	182.89	3,894.45	-35.77	0.29	-35.77	0.24	-0.23	0.76
3,990.00	1.82	179.22	3,989.39	-39.01	0.22	-39.01	0.31	-0.28	-3.86
4,085.00	2.06	172.40	4,084.34	-42.21	0.47	-42.21	0.35	0.25	-7.18
4,180.00	1.86	173.89	4,179.28	-45.44	0.86	-45.44	0.22	-0.21	1.57
4,274.00	2.19	180.79	4,273.22	-48.75	1.00	-48.75	0.44	0.35	7.34
4,369.00	2.31	184.67	4,368.15	-52.47	0.82	-52.47	0.20	0.13	4.08
4,463.00	2.46	187.97	4,462.07	-56.36	0.38	-56.36	0.22	0.16	3.51
4,558.00	2.16	183.83	4,556.99	-60.16	-0.02	-60.16	0.36	-0.32	-4.36
4,653.00	0.51	302.45	4,651.97	-61.72	-0.50	-61.72	2.57	-1.74	124.86
4,748.00	1.19	313.30	4,746.96	-60.82	-1.57	-60.82	0.73	0.72	11.42
4,842.00	1.13	340.05	4,840.94	-59.28	-2.60	-59.28	0.57	-0.06	28.46
4,937.00	0.75	324.55	4,935.93	-57.89	-3.28	-57.89	0.48	-0.40	-16.32
5,032.00	1.56	354.30	5,030.91	-56.10	-3.77	-56.10	1.03	0.85	31.32
5,126.00	3.00	2.80	5,124.83	-52.37	-3.77	-52.37	1.57	1.53	9.04
5,221.00	2.25	5.05	5,219.73	-48.03	-3.49	-48.03	0.80	-0.79	2.37
5,315.00	1.81	7.92	5,313.67	-44.72	-3.12	-44.72	0.48	-0.47	3.05
5,409.00	2.82	1.36	5,407.59	-40.94	-2.86	-40.94	1.11	1.07	-6.98
5,503.00	2.13	0.92	5,501.51	-36.88	-2.78	-36.88	0.73	-0.73	-0.47
5,597.00	3.06	1.17	5,595.41	-32.62	-2.70	-32.62	0.99	0.99	0.27
5,692.00	2.44	3.92	5,690.30	-28.07	-2.51	-28.07	0.67	-0.65	2.89
5,787.00	1.69	359.17	5,785.24	-24.65	-2.39	-24.65	0.81	-0.79	-5.00
5,881.00	2.56	5.92	5,879.17	-21.18	-2.19	-21.18	0.96	0.93	7.18
5,975.00	1.88	12.42	5,973.10	-17.58	-1.65	-17.58	0.77	-0.72	6.91
6,069.00	3.25	354.17	6,067.01	-13.43	-1.59	-13.43	1.68	1.46	-19.41
6,164.00	2.75	354.30	6,161.87	-8.48	-2.09	-8.48	0.53	-0.53	0.14

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well NBU 922-18K2
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	KB ELEVATION @ 4925.50ft (HP 298)
Site:	NBU 922-18 PAD EFKL_ALL TGTS SET @ 25' rad	**MD Reference:**	KB ELEVATION @ 4925.50ft (HP 298)
Well:	NBU 922-18K2	**North Reference:**	Grid
Wellbore:	1	**Survey Calculation Method:**	Minimum Curvature
Design:	1	**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)
6,258.00	2.25	350.67	6,255.78	-4.42	-2.61	-4.42	0.56	-0.53	-3.86
6,352.00	1.81	352.67	6,349.73	-1.12	-3.10	-1.12	0.47	-0.47	2.13
6,447.00	1.06	350.05	6,444.70	1.23	-3.44	1.23	0.79	-0.79	-2.76
6,540.00	0.81	0.42	6,537.68	2.73	-3.58	2.73	0.32	-0.27	11.15
6,635.00	0.31	12.42	6,632.68	3.66	-3.52	3.66	0.54	-0.53	12.63
6,730.00	0.88	2.17	6,727.67	4.64	-3.44	4.64	0.61	0.60	-10.79
6,825.00	1.50	1.80	6,822.65	6.61	-3.37	6.61	0.65	0.65	-0.39
6,920.00	1.06	5.55	6,917.63	8.73	-3.25	8.73	0.47	-0.46	3.95
7,015.00	0.75	8.80	7,012.62	10.22	-3.07	10.22	0.33	-0.33	3.42
7,110.00	0.31	17.80	7,107.61	11.07	-2.90	11.07	0.47	-0.46	9.47
7,204.00	0.44	104.17	7,201.61	11.23	-2.47	11.23	0.56	0.14	91.88
7,299.00	0.31	62.30	7,296.61	11.26	-1.89	11.26	0.31	-0.14	-44.07
7,394.00	0.44	80.80	7,391.61	11.44	-1.30	11.44	0.19	0.14	19.47
7,489.00	0.38	83.05	7,486.60	11.53	-0.63	11.53	0.07	-0.06	2.37
7,582.00	0.13	101.67	7,579.60	11.55	-0.22	11.55	0.28	-0.27	20.02
7,677.00	0.44	182.92	7,674.60	11.16	-0.13	11.16	0.46	0.33	85.53
7,771.00	0.77	180.59	7,768.60	10.17	-0.16	10.17	0.35	0.35	-2.48
7,865.00	0.63	129.67	7,862.59	9.21	0.24	9.21	0.65	-0.15	-54.17
7,960.00	1.44	56.80	7,957.58	9.53	1.64	9.53	1.46	0.85	-76.71
8,055.00	1.50	72.42	8,052.55	10.56	3.82	10.56	0.43	0.06	16.44
8,149.00	1.63	75.30	8,146.51	11.27	6.29	11.27	0.16	0.14	3.06
8,244.00	1.69	54.55	8,241.47	12.42	8.73	12.43	0.63	0.06	-21.84
8,338.00	0.69	156.67	8,335.46	12.71	10.09	12.71	2.08	-1.06	108.64
8,433.00	1.13	158.92	8,430.44	11.31	10.65	11.31	0.46	0.46	2.37
8,527.00	0.69	288.80	8,524.44	10.63	10.45	10.63	1.77	-0.47	138.17
8,621.00	0.69	277.34	8,618.43	10.88	9.35	10.88	0.15	0.00	-12.19
8,716.00	0.44	260.42	8,713.43	10.89	8.42	10.90	0.31	-0.26	-17.81
8,811.00	0.19	229.92	8,808.43	10.73	7.94	10.73	0.31	-0.26	-32.11
8,905.00	0.19	276.92	8,902.43	10.65	7.67	10.65	0.16	0.00	50.00
9,000.00	0.56	326.67	8,997.42	11.06	7.26	11.06	0.48	0.39	52.37
9,126.00	0.69	328.80	9,123.42	12.22	6.53	12.22	0.10	0.10	1.69
9,220.00	0.69	317.55	9,217.41	13.12	5.85	13.12	0.14	0.00	-11.97
9,315.00	0.50	330.17	9,312.40	13.90	5.26	13.90	0.24	-0.20	13.28
9,409.00	0.50	320.17	9,406.40	14.58	4.79	14.58	0.09	0.00	-10.64
9,504.25	0.25	294.92	9,501.65	14.98	4.34	14.98	0.31	-0.26	-26.51
9,599.00	0.19	230.29	9,596.40	14.97	4.03	14.97	0.25	-0.06	-68.21
9,693.00	0.44	177.29	9,690.40	14.51	3.93	14.51	0.38	0.27	-56.38
9,788.00	0.50	199.05	9,785.39	13.75	3.81	13.75	0.20	0.06	22.91
9,841.00	0.59	160.92	9,838.39	13.28	3.82	13.28	0.69	0.17	-71.94
EXT. TD									
9,890.00	0.59	160.92	9,887.39	12.80	3.99	12.80	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
9,890.00	9,887.39	12.80	3.99	LAST SURVEY

Checked By: _____ Approved By: _____ Date: _____

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MD	TVD	EW	NS	INC	AZI
0.00	0.00	0.00	0.00	0.00	0.00
141.00	141.00	-0.29	-0.57	0.52	207.10
234.00	233.99	-0.72	-1.33	0.56	211.26
327.00	326.99	-1.34	-2.26	0.81	215.67
419.00	418.98	-1.55	-2.67	0.25	56.42
511.00	510.98	-0.99	-2.49	0.50	80.00
603.00	602.98	0.07	-2.18	0.88	70.17
695.00	694.97	1.10	-1.53	0.69	41.67
788.00	787.96	1.54	-0.76	0.44	9.55
880.00	879.96	1.76	0.07	0.63	19.30
972.00	971.95	2.12	1.37	1.06	13.30
1064.00	1063.94	2.03	2.09	0.38	249.80
1157.00	1156.94	1.50	1.73	0.44	223.04
1251.00	1250.94	0.90	1.18	0.56	231.42
1346.00	1345.93	0.21	0.36	0.75	211.67
1440.00	1439.93	-0.01	-0.34	0.25	150.17
1536.00	1535.93	0.28	-0.53	0.23	90.25
1631.00	1630.93	0.42	-0.62	0.13	207.55
1725.00	1724.93	0.24	-0.79	0.19	240.17
1820.00	1819.93	0.11	-0.77	0.13	3.17
1914.00	1913.93	0.12	-0.35	0.38	0.42
2009.00	2008.92	0.17	0.17	0.25	13.17
2103.00	2102.92	0.22	-0.15	0.63	178.67
2198.00	2197.92	0.39	-1.17	0.63	162.42
2293.00	2292.92	0.19	-1.64	0.44	273.80
2388.00	2387.91	-0.60	-1.81	0.56	244.92
2483.00	2482.91	-0.77	-2.27	0.44	136.44
2577.00	2576.91	-0.39	-3.04	0.63	166.05
2672.00	2671.90	-0.12	-3.88	0.44	157.17
2765.00	2764.90	-0.02	-4.82	0.75	182.80
2953.00	2952.86	0.16	-8.22	1.33	173.78
3047.00	3046.83	0.43	-10.60	1.59	173.38
3142.00	3141.80	0.68	-13.28	1.66	176.00
3235.00	3234.76	0.87	-15.95	1.64	175.84
3330.00	3329.72	1.10	-18.62	1.59	174.05
3425.00	3424.69	1.42	-21.15	1.49	171.65
3519.00	3518.66	1.61	-23.49	1.38	179.17
3613.00	3612.62	1.28	-25.89	1.61	195.45
3707.00	3706.58	0.72	-28.72	1.91	187.41
3801.00	3800.52	0.45	-32.17	2.31	182.18
3895.00	3894.45	0.29	-35.77	2.09	182.89
3990.00	3989.39	0.22	-39.01	1.82	179.22
4085.00	4084.34	0.47	-42.21	2.06	172.40
4180.00	4179.28	0.86	-45.44	1.86	173.89
4274.00	4273.22	1.00	-48.75	2.19	180.79
4369.00	4368.15	0.82	-52.47	2.31	184.67
4463.00	4462.07	0.38	-56.36	2.46	187.97
4558.00	4556.99	-0.02	-60.16	2.16	183.83
4653.00	4651.97	-0.50	-61.72	0.51	302.45
4748.00	4746.96	-1.57	-60.82	1.19	313.30
4842.00	4840.94	-2.60	-59.28	1.13	340.05

9841.00	9838.39	3.82	13.28	0.59	160.92
9890.00	9887.39	3.99	12.80	0.59	160.92

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-18K2 (BLUE WELL)	Spud Conductor: 11/3/2008	Spud Date: 12/25/2008
Project: UTAH-UINTAH	Site: NBU 922-18L PAD	Rig Name No: H&P 298/298, H&P 298/298
Event: DRILLING	Start Date: 12/1/2008	End Date: 1/24/2009
Active Datum: RKB @4,925.00ft (above Mean Sea Level)	UWI: NE/SW/0/9/S/22/E/18/0/0/6/PM/S/2,545.00/W/0/1,223.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
12/8/2008	-							
12/23/2008	9:00 - 0:00	15.00	MIRU	01	C	P		Skid rig - Conductor spacing 9' 4". When rig was skidded on last well there was some braces that were not put in, had to slide rig back and install braces to get width spacing right, then slid farword. Cut off flow line to make modification, welder machine gelling/freezing up, wait on another welder to finish modification. Install conductor & vibrating hose on mud line. Electrical problem with camp houses.
12/24/2008	0:00 - 1:00	1.00	MIRU	01	B	P		Install vibrating hose between mud line and MCC house
	1:00 - 1:00	0.00	MIRU					Install bottom section of 20" conductor pipe, pickup top section of conductor pipe and blot together. Pickup conductor pipe and install "O" ring in bottom section and set screws. Bolt flow line flange to conductor flange. Welder cut off flow line flange, then welding maching froze up. Called 2nd welder and he broke down on way to rig. Found 3rd welder
	6:00 - 18:00	12.00	MIRU	01	B	P		Prep to spud. Wait on welder 06:00 - 11:00. Installed valve in conductor, break fill up and discharge lines. Change out bails and elevators on top drive. Pickup directional tools from derrick, run in hole, run steam line between directional tools and conductor pipe to thaw out mud motor. Transfer mud from trip tanks and slug tank to active system. Clean trip tanks and blow down lines. Unload surface casing. Change out valve on mud line. Welder working on flow line, cut section out of flow line, weld on flange and install adapter spool to flow line. Hookup jet line and pad eyes.
	18:00 - 22:30	4.50	MIRU	01	B	P		Install gaskets in flow line spool. Install mouse hole sock. Pre-spud inspection. Pickup cross over sub
	22:30 - 23:30	1.00	MIRU	01	B	P		HSM, pressure test mud line and pumps to 3500 psi for 10 minutes each. Blow down mud line and kelly hose.
	23:30 - 0:00	0.50	MIRU	06	A	P		Make up bit and start picking up MWD tools
12/25/2008	0:00 - 1:30	1.50	PRPSPD	06	A	P		Pickup stand, make up bit, install MWD tool and scribe
	1:30 - 3:30	2.00	DRLSUR	02	D	P		Spud well with 12 1/4" bit at 01:30. Dril cement 103' - 111'. Drill formation 111' - 193', WOB 5-7k, RPM 40, GPM 449, Pump #1 SPM 100, SPP On/Off Bottom 1425/650, Torque On/Off Bottom 3/0, Mud Wt 9.3, Visc 35, Footage 82', FPH 41
	3:30 - 5:00	1.50	DRLSUR	19	A	S		While making connection hand dropped collar clamp wrench down hole. TOOH
	5:00 - 6:30	1.50	DRLSUR	06	A	S		TOOH. Laid down XO, MWD tool. Set directional tools in mouse hole and drain mud motor
	6:30 - 14:00	7.50	DRLSUR	19	A	S		Pickup magnet #1, TIH w/ stand DC and stand HWDP. Made 3 runs w/ flat bottom mill, not successful. Lay down 11 1/2" flat bottom mill and pickup 10 1/2" magnet w/ saw tooth collar, made 5 runs, on 4th run recovered 1 piece of fish, on 5th run recovered remainder of fish
	14:00 - 15:00	1.00	DRLSUR	19	A	S		Rig down fishing equipment
	15:00 - 15:30	0.50	DRLSUR	06	A	P		Scribe high side of motor, make up bit, break off Emitter sub, pickup MWD and Carrier sub
	15:30 - 16:00	0.50	DRLSUR	07	A	P		Rig Service

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-18K2 (BLUE WELL)	Spud Conductor: 11/3/2008	Spud Date: 12/25/2008	
Project: UTAH-UINTAH	Site: NBU 922-18L PAD		Rig Name No: H&P 298/298, H&P 298/298
Event: DRILLING	Start Date: 12/1/2008		End Date: 1/24/2009
Active Datum: RKB @4,925.00ft (above Mean Sea Level)	UWI: NE/SW/0/9/S/22/E/18/0/0/6/PM/S/2,545.00/W/0/1,223.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	16:00 - 16:30	0.50	DRLSUR	06	A	P		Make up xo subs and TIH tagged at 193'
	16:30 - 17:00	0.50	DRLSUR	03	E	P		Break circulation and wash bottom clean for 15 minutes
	17:00 - 0:00	7.00	DRLSUR	02	D	P		Drill 193' - 745', WOB 18, GPM 810, Pump #1 SPM 90, Pump #2 SPM 90, RPM 50, Motor RPM 129, SPP On/Off Bottom 2200/1840, Torque On/Off Bottom 6/2, Mud Wt 9.6, Viscosity 36, Footage 552, FPH 78.8 Slide Perameters: (379'-394'), (655'-667'), (1024'-1042'), WOB 18, GPM 810, Pump #1 SPM 90, Pump #2 SPM 90, RPM 0, Motor RPM 129, SPP On/Off Bottom 2050/1850, Torque On/Off Bottom 0/0
12/26/2008	0:00 - 10:00	10.00	DRLSUR	02	D	P		Drill 745' - 1588', WOB 10-20K, GPM 754, Pump #1 SPM 84, Pump #2 SPM 84, RPM 50, Motor RPM 120, SPP On/Off Bottom 2345/1930, Torque On/Off Bottom 9/2, Mud Wt 9.9, Viscosity 36, Footage 843, FPH 84.3 Slide Perameters: WOB 18, GPM 754, Pump #1 SPM 84, Pump #2 SPM 84, RPM 0, Motor RPM 120, SPP On/Off Bottom /, Torque On/Off Bottom 0/0
	10:00 - 10:30	0.50	DRLSUR	07	A	P		Rig Service
	10:30 - 0:00	13.50	DRLSUR					Drill 1588' - 2550', WOB 25K, GPM 754, Pump #1 SPM 84, Pump #2 SPM 84, RPM 65, Motor RPM 120, SPP On/Off Bottom 2400/1860, Torque On/Off Bottom 9/2, Mud Wt 9.6, Viscosity 38, Footage 962, FPH 71.3 Slide Perameters: WOB 18, GPM 754, Pump #1 SPM 84, Pump #2 SPM 84, RPM 0, Motor RPM 120, SPP On/Off Bottom /, Torque On/Off Bottom 0/0
12/27/2008	0:00 - 5:00	5.00	DRLSUR	02	D	P		Drill 2550' - 2855', WOB 25K, GPM 754, Pump #1 SPM 84, Pump #2 SPM 84, RPM 65, Motor RPM 120, SPP On/Off Bottom 2400/1860, Torque On/Off Bottom 9/2, Mud Wt 9.6, Viscosity 38, Footage 962, FPH 71.3 Slide Perameters: WOB 18, GPM 754, Pump #1 SPM 84, Pump #2 SPM 84, RPM 0, Motor RPM 120, SPP On/Off Bottom /, Torque On/Off Bottom 0/0
	5:00 - 6:30	1.50	DRLSUR	05	A	P		Circulate and condition hole. Build slug, fill trip tanks
	6:30 - 8:00	1.50	DRLSUR	06	D	P		HSM w/ rig crew. Pump slug. TOOH
	8:00 - 9:00	1.00	DRLSUR	03	A	S		Work tight hole at 173', 103', 1409'. ream w/o circulation due to drill string being plugged
	9:00 - 12:00	3.00	DRLSUR	06	E	S		TOOH, laid down MWD tool, break bit and set directional tools in mouse hole. Mud motor was plugged with small chinks of shale. I think rig crew transfered mud from upright and transfer a bunch of shale over also.
	12:00 - 12:30	0.50	DRLSUR	06	E	S		Clean rig floor
	12:30 - 13:00	0.50	DRLSUR	07	A	P		Rig Service
	13:00 - 15:30	2.50	DRLSUR	06	E	S		HSM w/ rig crew, make up bit, bit sub and TIH, tagged at 1825'
	15:30 - 17:00	1.50	DRLSUR	06	E	S		Wash and ream 30' to bottom. Circulate and condition hole. Build and pump slug high viscosity sweep. Build, pump slug and fill trip tanks
	17:00 - 21:00	4.00	DRLSUR	06	D	P		TOOH to run casing. Blow down mud lines. Break bit. Clean floor. Blow down mud lines to trip tanks. Rig down drilling bails
	21:00 - 23:00	2.00	DRLSUR	12	A	P		HSM w/ casing crews. Rig up casing crew and lay down machine
	23:00 - 0:00	1.00	DRLSUR	12	C	P		Run 9 5/8" surface casing

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-18K2 (BLUE WELL)	Spud Conductor: 11/3/2008	Spud Date: 12/25/2008
Project: UTAH-UINTAH	Site: NBU 922-18L PAD	Rig Name No: H&P 298/298, H&P 298/298
Event: DRILLING	Start Date: 12/1/2008	End Date: 1/24/2009
Active Datum: RKB @4,925.00ft (above Mean Sea Level)	UWI: NE/SW/0/9/S/22/E/18/0/0/6/PM/S/2,545.00/W/0/1,223.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
12/28/2008	0:00 - 6:00	6.00	DRLSUR	12	C	P		Run 64 joints of 9 5/8" 36#/ft J55 LT&C casing, FMC DTO Wellhead, pup joint and landing joint. Total length 2839.91'. Landed at 2836.91'. Float collar at 2792.64'
	6:00 - 7:00	1.00	DRLSUR	05	D	P		Rig up circulating equipment and break circulation
	7:00 - 8:00	1.00	DRLSUR	12	A	P		HSM w/ casing crews and rig down casing equipment. Blow down mud lines
	8:00 - 9:30	1.50	DRLSUR	12	E	P		HSM w/ BJ cementing crew and rig crew. Rig up cementing equipment
	9:30 - 11:30	2.00	DRLSUR	12	E	P		Pressure test lines to 2000 psi. Pump 20 bbls mud clean. Cement casing in place w/ 312 sacks Lead Premium Lite II cement, 11.0 ppg, yield 3.38, water ratio 20.52 gallons per sack. Tailed in w/ 202 sacks class "G" cement, 1.8 ppg, yield 1.17, water ratio 5 gallons per sack. Displaced w/ 217.5 bbls fresh water, 1.5 bbls over did not pump plug, 10 bbls cement to pit, 650 psi differential pressure, good returns through out job. Bleed back .5 bbl, floats held. cement dropped.
	11:30 - 13:30	2.00	DRLSUR	12	E	P		Run 60' of 1" pipe from KB for top job. Could not get any deeper due to fluted landing collar and landing ring. Tried several time but was not successful.
	13:30 - 15:30	2.00	DRLSUR	12	E	P		Pump 100 sacks, 12 bbl slurry of class "G" cement at 15.8 ppg, yield 1.17, water ratio 5 gallons per sack.
	15:30 - 17:00	1.50	DRLSUR	12	E	P		HSM w/ BJ and rig down cementing equipment
	17:00 - 0:00	7.00	DRLSUR	01	E	P		Clean mud tanks. Pickup dog house stairs and pin, pickup beaver slide, pull out catwalk, pickup backyard stairs, rig down casing elevators, dock top drive and pull 1" cellar plates
12/29/2008	0:00 - 2:00	2.00	DRLSUR	01		P		Clean mud tanks, pumps and pulsation dampener. Check valves and seat in both pumps
	2:00 - 2:00	0.00	DRLSUR					RIG RELEASED AT 02:00 HOURS ON 12/29/08
12/30/2008	-							
1/15/2009	0:00 - 3:00	3.00	DRLPRO	01	C	P		PREP TO SKID RIG& SKID TO NBU 922-18K2
	3:00 - 7:30	4.50	DRLPRO	14	A	P		NU BOPE
	7:30 - 14:00	6.50	DRLPRO	15	A	P		TEST BOP,PIPE,BLIND RAMS,CHOKE LINE & ALL VALVES 5000# HIGH,250 LOW ANNULAR 2500,CSG 1500,WITNESSED BY CLIFF JOHNSON BLM
	14:00 - 14:30	0.50	DRLPRO	14	B	P		SET WEAR BUSHING
	14:30 - 15:30	1.00	DRLPRO	06	A	P		MOVE RENTAL HWDP TO OFFSIDE OF BOARD
	15:30 - 20:00	4.50	DRLPRO	06	A	P		PU BHA,TIH
	20:00 - 22:00	2.00	DRLPRO	02	F	P		DRILL CMT FLOAT & SHOE
	22:00 - 22:30	0.50	DRLPRO	02	B	P		DRILLING ROTARY SPUD 22:00 HRS 1/15/2009 DRILLING 2855-2885
	22:30 - 23:00	0.50	DRLPRO	14	B	P		INSTALL ROTATING HEAD
	23:00 - 0:00	1.00	DRLPRO	02	B	P		DRILLING 2885-2950=65 MW 9.0
1/16/2009	0:00 - 14:30	14.50	DRLPRO	02	B	P		DRILLING 2950-4558=1608=112.4 MW 9.3
	14:30 - 15:30	1.00	DRLPRO	05	C	P		CIRC BTMS UP /FTRIP PUMP SLUG,DROP SURVEY
	15:30 - 18:30	3.00	DRLPRO	06	A	P		,TOH FOR DIRECTIONAL TOOLS,L/D 61/2 DCS
	18:30 - 19:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	19:00 - 20:30	1.50	DRLPRO	08	B	X		CHANGE OUT ST-80 TORQUE CONTROL CABLE AND ADJ CABLES
	20:30 - 22:00	1.50	DRLPRO	06	A	P		FINISH L/D DCS
	22:00 - 0:00	2.00	DRLPRO	06	A	P		PU DIRECTIONAL TOOLS IH TO CSG SHOE 2800'
1/17/2009	0:00 - 1:00	1.00	DRLPRO	06	A	P		CUT DRILL LINE

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-18K2 (BLUE WELL)	Spud Conductor: 11/3/2008	Spud Date: 12/25/2008
Project: UTAH-UINTAH	Site: NBU 922-18L PAD	Rig Name No: H&P 298/298, H&P 298/298
Event: DRILLING	Start Date: 12/1/2008	End Date: 1/24/2009
Active Datum: RKB @4,925.00ft (above Mean Sea Level)	UWI: NE/SW/0/9/S/22/E/18/0/0/6/PM/S/2,545.00/W/0/1,223.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	1:00 - 3:30	2.50	DRLPRO	06	A	P		TRIP IN HOLE FROM 2800 TO 4556 TAKING SURVEYS EVERY 100' SURVEY @2953' 'INC 1.33 DEG AZI 173.78 SURVEY @ 4463' INC 2.46 DEG AZI 187.97
	3:30 - 16:00	12.50	DRLPRO	02	D	P		DRILLING,ROTATE & SLIDE, F/ 4556-5456 =900'=72 FPH MW 9.5 SURVEY 5032' INC 1.56 AZI 354.30
	16:00 - 16:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	16:30 - 0:00	7.50	DRLPRO	02	D	P		DRILLING ROTATE,SLIDE F/ 5456-6030=574 FPH MW 9.8 SURVEY 5975 INC 1.88 AZI 12.42
1/18/2009	0:00 - 11:00	11.00	DRLPRO	02	D	P		DRILLING ROTATE & SLIDE 6030-6795=765=69.5 FPH MW 9.9
	11:00 - 11:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	11:30 - 19:00	7.50	DRLPRO	02	D	P		DRILLING ROTATE 6795-7175=380=50.6 MW 10.0
	19:00 - 20:00	1.00	DRLPRO	05	C	P		CBU F/ BIT TRIP MIX SLUG
	20:00 - 0:00	4.00	DRLPRO	06	A	P		TOH TIGHT SPOTS 7160,5000
1/19/2009	0:00 - 2:30	2.50	DRLPRO	06	A	P		TIH,BREAK CIRC @ 2800',CIH
	2:30 - 3:00	0.50	DRLPRO	03	D	P		R & R 55' TO BTM 5' FILL
	3:00 - 0:00	21.00	DRLPRO	02	B	P		DRILLING ROTATE SLIDE F/7175-8198=1023=48.7 MW 10.0
1/20/2009	0:00 - 17:00	17.00	DRLPRO	02	B	P		DRILLING ROTATE & SLIDE 8198-8860=662=38.9 FPH
	17:00 - 17:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	17:30 - 0:00	6.50	DRLPRO	02	B	P		DRILLING ROTATE & SLIDE 8860-9085=225=34.6 MW 11.0
1/21/2009	0:00 - 2:30	2.50	DRLPRO	02	D	P		DRILL 9085-9121, 36' = 14.4 FPH, MW 11.0#
	2:30 - 3:30	1.00	DRLPRO	05	C	P		CIRCULATE PRIOR TO TRIP OUT, TAKE SUREVY, MAKE SLUG
	3:30 - 4:30	1.00	DRLPRO	08	A	Z		THAW OUT FROZEN FILLUP LINE & KILL LINE
	4:30 - 7:00	2.50	DRLPRO	06	A	P		TRIP OUT BIT #2, WORK THROUGH TIGHT SPOTS 6575, 6300, 5000, TRIP OUT.
	7:00 - 7:30	0.50	DRLPRO	06	A	P		PULL ROTATING HEAD RUBBER
	7:30 - 10:30	3.00	DRLPRO	06	A	P		POOH TO MONEL
	10:30 - 11:30	1.00	DRLPRO	06	J	P		INSPECT MWD ANTENNA IN MONEL, BREAK BIT #2, M/U BIT #3
	11:30 - 12:00	0.50	DRLPRO	08	A	P		SAFETY PIN FELL FROM DERRICK, SAFETY STANDDOWN & CHECK ALL PINS FOR MISSING KEEPER IN DERRICK
	12:00 - 12:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	12:30 - 16:00	3.50	DRLPRO	06	A	P		TRIP IN BIT #3 TO LEDGE @ 4980
	16:00 - 16:30	0.50	DRLPRO	05	A	P		WASH THROUGH BRIDGE @ 4980-5070
	16:30 - 19:30	3.00	DRLPRO	06	A	P		TRIP IN HOLE TO
	19:30 - 20:30	1.00	DRLPRO	05	A	P		iNSTALL ROTATING HEAD, WASH TO TD 9121
	20:30 - 0:00	3.50	DRLPRO	02	D	P		DRILLING 9121-9245 = 124' = 35.4 FPH, MW 11.2#, 6% LCM
1/22/2009	0:00 - 3:30	3.50	DRLPRO	02	D	P		DRILL 9245-9399, 154' = 44 FPH, MW 11.4#, VIS 50, 6% LCM, 90 SPM, GPM 404,SPP ON/OFF 2315/2080, WOB 18K, TORQUE ON/OFF 9K/6K, ST WT 220K UP, 179K DOWN, 200K ROT, 55 RPM TOP DRIVE, 64 RPM MOTOR
	3:30 - 4:00	0.50	DRLPRO	22	G	X		BUILD VOLUME, INC LCM
	4:00 - 16:30	12.50	DRLPRO	02	D	P		DRILL 9399-9837 = 438' = 35 FPH, MW 11.2#, LCM 12%, VIS 44, TORQUE ON/OFF 9/5K, SPP ON/OFF 2150/1890, WOB 18K,ST WT 225K UP, 185K DOWN, 207K ROT, 55 RPM TOP DRIVE, 64 RPM MOTOR
	16:30 - 17:00	0.50	DRLPRO	07	A	P		DAILY RIG SERVICE

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-18K2 (BLUE WELL)	Spud Conductor: 11/3/2008	Spud Date: 12/25/2008
Project: UTAH-UINTAH	Site: NBU 922-18L PAD	Rig Name No: H&P 298/298, H&P 298/298
Event: DRILLING	Start Date: 12/1/2008	End Date: 1/24/2009
Active Datum: RKB @4,925.00ft (above Mean Sea Level)	UWI: NE/SW/0/9/S/22/E/18/0/0/6/PM/S/2,545.00/W/0/1,223.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	17:00 - 19:00	2.00	DRLPRO					DRILL 9837-9890 = 53' = 26.5 FPH, MW 11.4#, 40 VIS, TORQUE ON/OFF 9/3K, SPP ON/OFF 2190/1971, WOB 18K,ST WT 220K UP, 179K DOWN, 200K ROT, 55 RPM TOP DRIVE, 64 RPM MOTOR
	19:00 - 21:00	2.00	DRLPRO	05	C	P		PUMP 50 BBL HI-VIS SWEEP, CIRCULATE B/U X 2
	21:00 - 0:00	3.00	DRLPRO	06	E	P		PUMP SLUG, POOH FOR WIPER TRIP-TIGHT 9870-9835, BALANCE OF HOLE GOOD
1/23/2009	0:00 - 3:00	3.00	DRLPRO	06	E	P		WIPER TRIP UP TO 4923, TIGHT 9870-9835 (UP TO +100K), RIH, HIT BRIDGE @ 6565, P/U AND PASS AGAIN WITHOUT PROBLEM, CONTINUE TO BOTTOM, 5' FILL ON BOTTOM
	3:00 - 5:00	2.00	DRLPRO	05	C	P		CIRCULATE B/U, 20' FLARE ON B/U, CCH, MW 11.5#
	5:00 - 11:00	6.00	DRLPRO	06	A	P		PUMP SLUG, POOH TO 5880, PULL ROT RUBBER, POOH TO SHOE, FLOW CHECK-OK, POOH TO DIRECTIONAL TOOLS
	11:00 - 12:00	1.00	DRLPRO	06	J	P		POOH MWD TOOL, BRK BIT, L/D MUD MOTOR
	12:00 - 12:30	0.50	DRLPRO	07	A	P		SERVICE RIG
	12:30 - 13:00	0.50	DRLPRO	06	A	P		PULL WEAR BUSHING
	13:00 - 21:00	8.00	DRLPRO	11	D	P		HOLD SAFETY MEETING WITH HALLIBUTON, R/U & RUN TRIPLE COMBO, BRIDGE OUT @ 6530, POOH, RUN IN SLICK, BRIDGE OUT SAME PLACE, LOG UP, R/D HALLIBURTON
	21:00 - 23:00	2.00	DRLPRO	12	A	P		SAFETY MEETING WITH TESCO, R/U CASING EQUIPMENT
	23:00 - 0:00	1.00	DRLPRO	12	C	P		M/U FLOAT & SHOE, RUN 4-1/2 11.6# I-80 PRODUCTION CASING
1/24/2009	0:00 - 6:00	6.00	DRLPRO	12	C	P		RUN 243 JTS 4-1/2" 11.6#, I-80 PRODUCTION CASING, SHOE @ 9880, SET IN HANGER WITH 83000#
	6:00 - 8:30	2.50	DRLPRO	05	D	P		BRK CIRCULATION, CIRCULATE CASING BOTTOMS UP, 85 SPM, 850 PSI, MW 11.5#, 41 VIS, ESTIMATED 7000 UTS GAS ON BOTTOMS UP WITH 8-12' FLARE, SAFETY MEETING WITH BJ PRIOR TO RIGGING UP CEMENT EQUIPMENT
	8:30 - 12:00	3.50	DRLPRO	12	E	P		TEST LINES TO 4500 PSI, PUMP 20 SX 9.5# SCAVENGER, 381 SX 11# LEAD, 1268 SX 14.3# TAIL, CLEANUP LINES, DROP PLUG & DISPLACE WITH 152.5 BBL CLAYTREAT WATER WITH MAGNACIDE, BUMP PLUG 2900 PSI, FLOATS HOLDING OKAY, LOST CIRCULATION AFTER DROPPED PLUG, NO CEMENT TO SURFACE BUT GOOD LIFT PRESSURE
	12:00 - 13:30	1.50	DRLPRO	12	E	P		R/D CASING/CEMENT EQUIPMENT, CHANGE OUT ELEVATOR BAILS TO SET PACKOFF IN CASING HEAD, SET PACKOFF & TEST SAME-GOOD
	13:30 - 18:00	4.50	DRLPRO	14	A	P		NIPPLE DOWN BOP'S ETC, CLEAN PITS, RELEASE RIG TO NBU 922-18K1BS @ 1800 HRS 1/24/09

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-18K2 (BLUE WELL)	Spud Conductor: 11/3/2008	Spud Date: 12/25/2008	
Project: UTAH-UINTAH	Site: NBU 922-18L PAD		Rig Name No: MILES 2/2
Event: COMPLETION	Start Date: 11/2/2009		End Date: 11/7/2009
Active Datum: RKB @4,925.00ft (above Mean Sea Level)	UWI: NE/SW/0/9/S/22/E/18/0/0/6/PM/S/2,545.00/W/0/1,223.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
10/23/2009	7:00 - 17:00	10.00	COMP	33	D	P		MIRU B&C QUICK TEST. PUMP WELL UP T/ 7000# HELD FOR ABOUT 2 MIN. THEN EXTENTION SPOOL PARTED . FRAC VALVES SHOT UP ABOUT 15' IN THE AIR & CAME ATRAIT BACK DOWN. AFTER PSI WAS GONE. FOUND THAT TBG HEAD EXTENTION SPOOL HAD PARTED. CALLED FMC WELL HEAD & LISA COOK THE SAFTY PERSON FOR ANADARKO. FMC PULLED ON LOC. ATTM T/ REMOVE TBG HEAD F/ CSG HEAD W/ FORK LIFT. COULD NOT GET TBG HEAD T/ COME OFF. MADE SEVERAL ATTM. WOULD NOT COME OFF. COVER WELL. ((IN THE :AM FMC WILL BRING NEW WELL HEAD.))
10/24/2009	7:00 - 11:00	4.00	COMP	47	C	P		MIRU WESTROC WELDER & BACKHOE. FILL OUT HOT WORK PERMIT. DIG OUT AROUND WELL HEAD W/ BACKHOE. WELD SOME PULLING EARS ON T/ TBG HEAD. HOOK UP FORK LIFT T/ PULLING EARS. PULL TBG HEAD OFF. SEND DEFECTIVE TBG HEAD W/ FMC. REPLACE 18" TBG HEAD W/ 32" TBG HEAD. SWI.
10/26/2009	7:00 - 7:30	0.50	COMP	48		P		HSM. SIME OPS.
	7:30 - 20:08	12.63	COMP	37	B	P		MIRU B&C QUICK TEST. PSI TEST CSG & BOTH FRAC VALVES T/ 7000#. GOOD TEST. BLEED OFF PSI. MOVE OVER T/ YELLOW WELL. MIRU CUTTER'S WL & SCHLUMBERGER FRAC SERV. STG 1) PU 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH PERF F/ 9694'-98', 4 SPF, 16 HOLES. 9550'-52', 4 SPF, 8 HOLES. 9462'-66', 3 SPF, 12 HOLES. 9452'-54', 3 SPF, 6 HOLES. POOH. SWI. WINTERIZE WELL HEAD.

Operation Summary Report

Well: NBU 922-18K2 (BLUE WELL)	Spud Conductor: 11/3/2008	Spud Date: 12/25/2008
Project: UTAH-UINTAH	Site: NBU 922-18L PAD	Rig Name No: MILES 2/2
Event: COMPLETION	Start Date: 11/2/2009	End Date: 11/7/2009
Active Datum: RKB @4,925.00ft (above Mean Sea Level)	UWI: NE/SW/0/9/S/22/E/18/0/0/6/PM/S/2,545.00/W/0/1,223.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
10/27/2009	7:00 - 23:59	16.98	COMP	36	B	P		STG 1) OPEN WELL 133# BEG PUMPING, BRK @ 4680# @ 6.4 BPM. SD ISIP 3164# FG .76. BEG FRAC, BULL HEAD 250 GAL 15% ACID. PUMP 64,098# 30/50 WHITE & TAIL IN W/ 5,000# 20/40 TLC. SD ISIP 3031# FG .75. SWI. X-OVER T/ RED WELL. STG 2)PU 4 1/2 8K HAL CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 9376' P/U PERF F/ 9342'-46', 3 SPF, 12 HOLES. 9278'-80', 4 SPF, 8 HOLES. 9254'-56', 4 SPF, 8 HOLES. 9198'-00', 3 SPF, 6 HOLES. 9174'-76', 3 SPF, 6 HOLES. POOH. OPEN WELL 2012#. BEG PUMPING, BRK @ 3469# @ 6.4 BPM. SD ISIP 2419# FG . 69. BEG FRAC, EST INJT RT @ 51.5 BPM @ 5151# = 95% PERF'S OPEN. PUMP 79,717# 30/50 WHITE & TAIL IN W/ 5,000# 20/40 TLC. SD ISIP 2922# FG .75. SWI. X-OVER T/ RED WELL. STG 3) PU 4 1/2 8K HAL CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 9,121' P/U PERF F/ 9088'-91', 3 SPF, 9 HOLES. 9012'-16', 3 SPF, 12 HOLES. 8926'-30', 3 SPF, 12 HOLES. 8864'-66', 3 SPF, 6 HOLES. POOH. WHP 2,236 PSI, BRK 2,640 PSI @ 5.4 BPM. ISIP 2,424 PSI, FG .70. PUMP 100 BBLS @ 51.4 BPM @ 4,784 PSI = 100% HOLES OPEN. MP 5,290 PSI, MR 51.8 BPM, AP 4,255 PSI, AR 49.4 BPM, ISIP 2,635 PSI, FG .72, NPI 211 PSI. PMP 2,282 BBLS SW & 86,703 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 91,703 LBS, STG 4) PU 4 1/2" HAL CBP & 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 120 DEG PHASING. RIH SET CBP @ 8,818' & PERF 8,786' - 88' 3SPF, 8,711' - 16' 3SPF, 8,616' - 20' 3SPF, 8,588' - 90' 3SPF. WHP 1,886 PSI, BRK 3,575 PSI @ 6.3 BPM. ISIP 2,640 PSI, FG .73. PUMP 100 BBLS @ 51.5 BVPM @ 4,892 PSI = 100% HOLES OPEN. MP 5,439 PSI, MR 51.9 BPM, AP 4,422 PSI, AR 50.7 BPM, ISIP 2,710 PSI, FG .74, NPI 70 PSI. PMP 2,166 BBLS SW & 81,565 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 86,565 LBS, STG 5) PU 4 1/2" HAL CBP & 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 & 120 DEG PHASING. RIH SET CBP @ 8,502' & PERF 8,468' - 72' 4SPF, 8,434' - 36' 4SPF, 8,388' - 92' 3SPF, 8,356' - 58' 3SPF. WHP 2,188 PSI, BRK 2,519 PSI @ 6.4 BPM. ISIP 2,388 PSI, FG .71. PUMP 100 BBLS @ 51.5 BVPM @ 5,000 PSI = 86% HOLES OPEN.

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-18K2 (BLUE WELL)	Spud Conductor: 11/3/2008	Spud Date: 12/25/2008
Project: UTAH-UINTAH	Site: NBU 922-18L PAD	Rig Name No: MILES 2/2
Event: COMPLETION	Start Date: 11/2/2009	End Date: 11/7/2009
Active Datum: RKB @4,925.00ft (above Mean Sea Level)	UWI: NE/SW/0/9/S/22/E/18/0/0/6/PM/S/2,545.00/W/0/1,223.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
								MP 5,587 PSI, MR 52 BPM, AP 4,341 PSI, AR 47.3 BPM, ISIP 2,630 PSI, FG .74, NPI 242 PSI. PMP 1,435 BBLS SW & 53,732 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 58,732 LBS, STG 6) PU 4 1/2" HAL CBP & 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 & 120 DEG PHASING. RIH SET CBP @ 8,214' & PERF 8,180' - 84' 4SPF, 8,116' - 18' 4SPF, 8,058' - 62' 3SPF, 8,000' - 02' 3SPF. 42 HOLES WHP 1,872 PSI, BRK 3,085 PSI @ 6.2 BPM. ISIP 2,258 PSI, FG .71. PUMP 100 BBLS @ 56.2 BVPM @ 4,930 PSI = 96% HOLES OPEN. MP 5,846 PSI, MR 56.6 BPM, AP 4,740 PSI, AR 51.7 BPM, ISIP 2,359 PSI, FG .73, NPI 101 PSI. PMP 758 BBLS SW & 23,423 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 28,423 LBS, STG 7) PU 4 1/2" HAL CBP & 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 & 120 DEG PHASING. RIH SET CBP @ 7,974' & PERF 7,940' - 44' 3SPF, 7,900' - 02' 4SPF, 7,872' - 74' 4SPF, 7,804' - 06' 4SPF, 7,780' - 82' 3SPF, 42 HOLES. SWI SDFN
10/28/2009	6:30 - 7:00	0.50	COMP	48		P		HSM. FRACING & PERFORATING
	7:00 - 7:00	0.00	COMP	36	B	P		STG 7) WHP 1561PSI, BRK 2564 PSI @ 6.4 BPM. ISIP 1832 PSI, FG .66. PUMP 100 BBLS @ 51.5 BPM @ 4471 PSI = 79% HOLES OPEN. MP 4833 PSI, MR 51.7 BPM, AP 4035 PSI, AR 47.7 BPM, ISIP 2306 PSI, FG ..72, NPI 474 PSI. PMP 1207 BBLS SW & 44,512 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 49,512 LBS, SWI. FINISH THIS WELL. X-OVER T/ RED WELL. PU 4 1/2 8K HAL CBP. RIH SET KILL PLUG @ 7730'. POOH, SWI.
11/2/2009	7:00 - 7:30	0.50	COMP	48		P		RIG DWN, RU
	7:30 - 17:30	10.00	COMP	44		P		MIRU, ND FRAC VALVE, NU BOP'S, TEST BOP'S 3000#, PU TBG, RIH OOO JTS 4.7# L-80 TBG , TAG 1ST PLUG. PLUG #1 7730' 10' SAND 5 MIN 500# KICK PLUG #2 7974' 25' SAND 5 MIN 200# KICK PLUG #3 8214' 20' SAND 15 MIN 300# KICK PLUG #4 8502' 30' SAND 5 MIN 400# KICK TURNED WELL TO FLOW BACK FOR NIGHT.
11/3/2009	7:00 - 7:30	0.50	COMP	48		P		DRILLING PLUGS

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-18K2 (BLUE WELL)	Spud Conductor: 11/3/2008	Spud Date: 12/25/2008	
Project: UTAH-UINTAH	Site: NBU 922-18L PAD		Rig Name No: MILES 2/2
Event: COMPLETION	Start Date: 11/2/2009		End Date: 11/7/2009
Active Datum: RKB @4,925.00ft (above Mean Sea Level)	UWI: NE/SW/0/9/S/22/E/18/0/0/6/PM/S/2,545.00/W/0/1,223.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:30 - 7:30	0.00	COMP	44		P		CIRC WELL, PU TBG DRILL PLUGS. PLUG #5 8818' 25' SAND 10 MIN 400# KICK PLUG #6 9121' 30' SAND 8 MIN 400# KICK PLUG #7 9376' 30' SAND 10 MIN 400# KICK RIH TO 9718' TAGGED FILL305 JTS. PU PWR SWIVIL DRILL OUT TO 9815' HIT SOLID CIRC BOTTOMS UP, POOH LAY DWN 23 JTS TO 9136.76 287 JTS, LAND TBG.287 JTS L-80 4.7# TBG, XN SN 1.875, POBS 1300# TURN TO FLOW BACK CREW 12:15 PM RDMO TO NBU 922-18L2BS YELLOW PAD.
11/4/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 2750#, TP 1700#, 20/64" CK, 45 BWPH, TRACE SAND, LIGHT GAS TTL BBLS RECOVERED: 3509 BBLS LEFT TO RECOVER: 8548
	9:00 -		PROD	50				WELL TURNED TO SALE @ 0900 HR ON 11/4/09 - FTP 1800#, CP 3050#, 1.0 MCFD, 45 BWPD, 20/64 CK
11/5/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 3100#, TP 2000#, 20/64" CK,28 BWPH, TRACE SAND, 1343 GAS TTL BBLS RECOVERED: 4362 BBLS LEFT TO RECOVER: 7695
11/6/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 2950#, TP 1925#, 20/64" CK, 20 BWPH, TRACE SAND, 1498 GAS TTL BBLS RECOVERED: 4944 BBLS LEFT TO RECOVER: 7113
11/7/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 2625#, TP 1700#, 20/64" CK, 16 BWPH, TRACE SAND, 1872 GAS TTL BBLS RECOVERED: 5388 BBLS LEFT TO RECOVER: 6669
	7:00 -			33	A			7 AM FLBK REPORT: CP 2800#, TP 1800#, 20/64" CK, 16 BWPH, TRACE SAND, 2340 GAS TTL BBLS RECOVERED: 5452 BBLS LEFT TO RECOVER: 6605

API Well No: 43047397910000

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 922-18K2

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

9. API NUMBER: 43047397910000

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: 2545 FSL 1223 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW 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: 8/3/2010	☐ 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:	☐ 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.

THE OPERATOR REQUESTS AUTHORIZATION TO RECOMPLETE THE SUBJECT WELL LOCATION. THE OPERATOR PROPOSES TO RECOMPLETE THE WASATCH FORMATION. THE OPERATOR REQUESTS AUTHORIZATION TO COMMINGLE THE NEWLY WASATCH WITH THE EXISTING MESAVERDE FORMATION. PLEASE REFER TO THE ATTACHED RECOMPLETION PROCEDURE.

Accepted by the Utah Division of Oil, Gas and Mining

Date: August 19, 2010

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Danielle Piernot	720 929-6156	Regulatory Analyst
SIGNATURE N/A		**DATE** 8/3/2010

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43047397910000

Authorization: Board Cause No. 173-14.

Accepted by the
Utah Division of
Oil, Gas and Mining

Date: August 19, 2010

By:

Greater Natural Buttes Unit

NBU 922 - 18K2

RE-COMPLETIONS PROCEDURE

DATE:7/22/2010
AFE#:2047242

COMPLETIONS ENGINEER: Conner Staley, Denver, CO
(720)-929-6419 (Office)

SIGNATURE:

ENGINEERING MANAGER: JEFF DUFRESNE

SIGNATURE:

R E M E M B E R S A F E T Y F I R S T !

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Name: **NBU-922-18K2**
Location: **NW NE SW Sec. 18 T9S R22E**
Uintah County, UT
Date: **7/22/2010**

ELEVATIONS: 4899 GL 4925 KB

TOTAL DEPTH: 9890 **PBTD:** 9835
SURFACE CASING: 9 5/8", 36# J-55 ST&C @ 2840'
PRODUCTION CASING: 4 1/2", 11.6#, I-80 LT&C @ 9880'
Marker Joint **4958 - 4979 & 4979 - 4999**'

TUBULAR PROPERTIES:

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl/ft)	(gal/ft)
2 3/8" 4.7# J-55 tbg	7,700	8,100	1.901"	0.00387	0.1624
4 ½" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
2 3/8" by 4 ½" Annulus				0.0101	0.4227

TOPS:

1798' Green River
2059' Birds Nest
2552' Mahogany
5016' Wasatch
7773' Mesaverde
9890' Bottom of Mesaverde (TD)

CBL indicates good cement below N/A

GENERAL:

- A minimum of **12** tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Halliburtons Induction-Density-Neutron log dated 1/23/09
- **4** fracturing stages required for coverage.
- Procedure calls for 5 CBP's (**8000** psi).
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- Pump scale inhibitor at 3 gal/1000 during pad and sand ramp up to 1.25 ppg. Pump at 10 gal/1000 during flush.
- 30/50 mesh Ottawa sand, **Slickwater frac**.
- Maximum surface pressure **7000** psi.
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). Stage acid and scale inhibitor if necessary to cover the next perforated interval.

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- **Call flush at 0 PPG @ inline densiometers. Slow to 5 bbl/min over last 10-20 bbls of flush. Flush to top perf.**
- **If distance between plug and top perf of previous stage is less than 50', it is considered to be tight spacing - over flush stage by 5 bbls (from top perf)**
- Service companies need to provide surface/production annulus pop-offs to be set for 1500 psi for each frac.
- Pump a **curable resin coated sand (such as SLC)** last 5,000# of all frac stages
- Tubing Currently Landed @~9134
- Originally completed on 10/22/09

Existing Perforations:

Zone	Perfs		SPF	Holes
	Top, ft.	Bot., ft		
MESAVERDE	7780	7782	3	6
MESAVERDE	7804	7806	4	8
MESAVERDE	7872	7874	4	8
MESAVERDE	7900	7902	4	8
MESAVERDE	7940	7944	3	12
MESAVERDE	8000	8002	3	6
MESAVERDE	8058	8062	3	12
MESAVERDE	8116	8118	4	8
MESAVERDE	8180	8184	4	16
MESAVERDE	8356	8358	3	6
MESAVERDE	8388	8392	3	12
MESAVERDE	8434	8436	4	8
MESAVERDE	8468	8472	4	16
MESAVERDE	8588	8590	3	6
MESAVERDE	8616	8620	3	12
MESAVERDE	8711	8716	3	15
MESAVERDE	8786	8788	3	6
MESAVERDE	8864	8866	3	6
MESAVERDE	8926	8930	3	12
MESAVERDE	9012	9016	3	12
MESAVERDE	9088	9091	3	9
MESAVERDE	9174	9176	3	6
MESAVERDE	9198	9200	3	6
MESAVERDE	9254	9256	4	8
MESAVERDE	9278	9280	4	8
MESAVERDE	9342	9346	3	12
MESAVERDE	9452	9454	3	6
MESAVERDE	9462	9466	3	12
MESAVERDE	9550	9552	4	8
MESAVERDE	9694	9698	4	16

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PROCEDURE:

1. MIRU. Control well with recycled water and biocide as required. ND WH, NU BOP's and test.

2. TOOH with 2-3/8", 4.7#, J-55 (or N-80) tubing (currently landed at ~9134'). Visually inspect for scale and consider replacing if needed.

3. If tbg looks ok consider running a gauge ring to 7594 (50' below proposed CBP). Otherwise P/U a mill and C/O to 7594 (50' below proposed CBP).

4. Set 8000 psi CBP at ~ 7544'. Pressure test BOP and casing to 6000 psi. .

5. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	7488	7496	4	32
WASATCH	7512	7514	4	8

6. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gal of 15% HCl and let soak. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~7488' and trickle 250gal 15%HCL w/ scale inhibitor in flush .

7. Set 8000 psi CBP at ~6900'. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	6860	6870	4	40

8. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~6860' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

9. Set 8000 psi CBP at ~6412'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6268	6274	3	18
WASATCH	6378	6382	4	16

10. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~6268' trickle 250gal 15%HCL w/ scale inhibitor in flush.

11. Set 8000 psi CBP at ~6060'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6020	6030	4	40

12. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 9 on attached listing. Under-displace to ~6020' and flush only with recycled water.

13. Set 8000 psi CBP at~5970'.

14. TIH with 3 7/8" mill, pump off sub, SN and tubing.

15. Mill ALL plugs and clean out to PBTD at 9835. Land tubing at ±**9144**' pump off bit and bit sub. This well WILL be commingled at this time.

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16. Clean out well with foam and/or swabbing unit until steady flow has been established from recomplete.

17. RDMO

For design questions, please call
Conner Staley, Denver, CO
(720)-929-6419 (Office)

For field implementation questions, please call
Jeff Samuels Vernal, UT
435-781-9770 (Office)

NOTES:

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Name NBU 922-18K2
Perforation and CBP Summary

Stage	Zones	Perforations		SPF	Holes		Fracture Coverage		
		Top, ft	Bottom, ft						
1	WASATCH	7488	7496	4	32		7487	to	7517.5
	WASATCH	7512	7514	4	8				
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
					Look				
	# of Perfs/stage				40		CBP DEPTH	6,900	
2	WASATCH	6860	6870	4	40		6854	to	6874.5
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
					Look				
	# of Perfs/stage				40		CBP DEPTH	6,412	
3	WASATCH	6268	6274	3	18		6258	to	6288.5
	WASATCH	6378	6382	4	16		6373	to	6384
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
					Look				
	# of Perfs/stage				34		CBP DEPTH	6,060	
4	WASATCH	6020	6030	4	40		6007	to	6046.5
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	# of Perfs/stage				40		CBP DEPTH	5,970	
	Totals				154				

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Fracturing Schedules
Name NBU 922-18K2
Slickwater Frac

Copy to new book

Recomplete? Y
Pad? Y
ACTS? Y

Swabbing Days	0 Enter Number of swabbing days here for recompletes
Production Log	0 Enter 1 if running a Production Log
DFIT	0 Enter Number of DFITs

Stage	Zone	Perfs Top, ft.	Perfs Bot., ft	SPF	Holes	Rate BPM	Fluid Type	Initial ppg	Final ppg	Fluid	Volume gals	Cum Vol gals	Volume BBLs	Cum Vol BBLs	Fluid % of frac	Sand % of frac	Sand lbs	Cum. Sand lbs	Footage from CBP to Flush	Scale Inhib., gal.
1	WASATCH	7488	7496	4	32	Varied	Pump-in test			Slickwater		0	0	0						
	WASATCH	7512	7514	4	8	0	ISIP and 5 min ISIP													45
	WASATCH					50	Slickwater Pad			Slickwater	5,411	5,411	129	129	15.0%	0.0%	0	0		16
	WASATCH					50	Slickwater Ramp	0.25	1.5	Slickwater	18,038	23,449	429	558	50.0%	35.7%	15,783	15,783		54
	WASATCH					50	Slickwater Ramp	1.5	3	Slickwater	12,626	36,075	301	859	35.0%	64.3%	28,409	44,192		0
	WASATCH					50	Flush (4-1/2)			Slickwater	4,888	40,963	116	975				44,192		0
	WASATCH						ISDP and 5 min ISDP			Slickwater										0
	WASATCH																			0
	WASATCH																	44,192		0
	WASATCH											40,963	116	975						45
	WASATCH																			160
			# of Perfs/stage		Look 40								Flush depth		7488	gal/md-ft	30,000 CBP depth	36,750	lbs sand/md-ft 588	
						19.5	<< Above pump time (min)													
2	WASATCH	6860	6870	4	40	Varied	Pump-in test			Slickwater		0	0	0						
	WASATCH					0	ISIP and 5 min ISIP													
	WASATCH					50	Slickwater Pad			Slickwater	4,298	4,298	102	102	15.0%	0.0%	0	0		13
	WASATCH					50	Slickwater Ramp	0.25	1.5	Slickwater	14,325	18,623	341	443	50.0%	35.7%	12,534	12,534		43
	WASATCH					50	Slickwater Ramp	1.5	3	Slickwater	10,028	28,650	239	682	35.0%	64.3%	22,562	35,096		0
	WASATCH					50	Flush (4-1/2)			Slickwater	4,478	33,128	107	789				35,096		0
	WASATCH						ISDP and 5 min ISDP			Slickwater										0
	WASATCH																			0
	WASATCH																	35,096		0
	WASATCH											33,128	107	789						42
	WASATCH																			98
			# of Perfs/stage		Look 40								Flush depth		6860	gal/md-ft	500,000 CBP depth	612,500	lbs sand/md-ft 448	
						15.8	<< Above pump time (min)													
3	WASATCH	6268	6274	3	18	Varied	Pump-in test			Slickwater		0	0	0						
	WASATCH	6378	6382	4	16	0	ISIP and 5 min ISIP													
	WASATCH					50	Slickwater Pad			Slickwater	8,514	8,514	203	203	15.0%	0.0%	0	0		26
	WASATCH					50	Slickwater Ramp	0.25	1.5	Slickwater	28,379	36,892	676	878	50.0%	35.7%	24,831	24,831		85
	WASATCH					50	Slickwater Ramp	1.5	3	Slickwater	19,865	56,758	473	1,351	35.0%	64.3%	44,697	69,528		0
	WASATCH					50	Flush (4-1/2)			Slickwater	4,092	60,849	97	1,449				69,528		0
	WASATCH						ISDP and 5 min ISDP			Slickwater										0
	WASATCH																			0
	WASATCH																	69,528		0
	WASATCH											60,849	97	1,449						39
	WASATCH																			150
			# of Perfs/stage		Look 34								Flush depth		6268	gal/md-ft	25,000 CBP depth	30,625	lbs sand/md-ft 208	
						29.0	<< Above pump time (min)													
4	WASATCH	6020	6030	4	40	Varied	Pump-in test			Slickwater		0	0	0						
	WASATCH					0	ISIP and 5 min ISIP													
	WASATCH					50	Slickwater Pad			Slickwater	9,135	9,135	217	217	15.0%	0.0%	0	0		27
	WASATCH					50	Slickwater Ramp	0.25	1.5	Slickwater	30,448	39,583	725	942	50.0%	35.7%	26,642	26,642		91
	WASATCH					50	Slickwater Ramp	1.5	3	Slickwater	21,314	60,897	507	1,450	35.0%	64.3%	47,956	74,599		0
	WASATCH					50	Flush (4-1/2)			Slickwater	3,930	64,827	94	1,543				74,599		0
	WASATCH						ISDP and 5 min ISDP			Slickwater										0
	WASATCH																			0
	WASATCH																	74,599		0
	WASATCH											64,827	94	1,543						0
	WASATCH																			119
			# of Perfs/stage		40								Flush depth		6020	gal/md-ft	19,000 CBP depth	23,275	lbs sand/md-ft 50	
						30.9	<< Above pump time (min)													
	Totals				154						Total Fluid	199,767 gals		4,756 bbls			Total Sand	223,415		
												4,756 bbls								
						1.6								10.6 tanks					Total Scale Inhib. =	526

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 922-18K2

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

9. API NUMBER: 43047397910000

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: 2545 FSL 1223 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW 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: 11/4/2011	☐ 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:	☐ 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.

The operator is requesting authorization to perform remediation on the casing, and complete the Wasatch formation. A previous recompletion procedure was submitted and approved; however, the operator was unable to get a passing test when pressure testing the casing. The operator requests authorization to commingle the Wasatch formation with the existing Mesaverde formation. Please refer to the attached recompletion procedure.

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst
SIGNATURE N/A		**DATE** 11/4/2011

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Greater Natural Buttes Unit

NBU 922-18K2

RE-COMPLETIONS PROCEDURE

DATE:5/6/2011
AFE#:2047242
API#:4304739791
USER ID:OOT937 (Frac Invoices Only)

COMPLETIONS ENGINEER: **Zachary Garrity, Denver, CO**
(720)-929-6180 (Office)
(406)-781-6427 (Cell)

SIGNATURE:

ENGINEERING MANAGER: **JEFF DUFRESNE**

SIGNATURE:

R E M E M B E R S A F E T Y F I R S T !

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Name: **NBU-922-18K2**
Location: **NW NE SW Sec. 18 T9S R22E**
LAT: 40.035723 **LONG:** -109.486364 **COORDINATE:** NAD83 *(Surface Location)*
Uintah County, UT
Date: **5/6/2011**

ELEVATIONS: 4899' GL 4925' KB *Frac Registry TVD: 9887'*

TOTAL DEPTH: 9890' **PBTD:** 9807'
SURFACE CASING: 9 5/8", 36# J-55 LT&C @ 2840'
PRODUCTION CASING: 4 1/2", 11.6#, I-80 LT&C @ 9852'
Marker Joint **4957-4978 & 4978-4999**'

TUBULAR PROPERTIES:

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES (bbl/ft)	CAPACITIES (gal/ft)
2 3/8" 4.7# J-55 tbg	7,700	8,100	1.901"	0.00387	0.1624
4 ½" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
2 3/8" by 4 ½" Annulus				0.0101	0.4227

TOPS*:

1735' Green River
1937' Birds Nest
2582' Mahogany
5062' Wasatch
7795' Mesaverde
9890' Bottom of Mesaverde (TD)

* Tops updated to reflect latest geological interpretation

CBL indicates good cement below 3050'

GENERAL NOTES:

- A minimum of **10** tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Halliburtons Induction-Density-Neutron log dated 1/23/09
- **4** fracturing stages required for coverage.
- Procedure calls for 5 CBP's (**8000** psi).
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- Pump scale inhibitor at 3 gal/1000 during pad and sand ramp up to 1.25 ppg. Pump at 10 gal/1000 during flush.
- 30/50 mesh Ottawa sand, **Slickwater frac**.
- Maximum surface pressure **6200** psi.
- **If casing pressure test fails. MIRU with tubing and packer. Isolate leak by pressure testing above and below the packer. RIH and set appropriate casing leak remediation**

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(specific details on remediation will be provided in post-job-report). Re-pressure test to 1000 and 3500 psi for 15 minutes each and to 6200 psi for 30 minutes.

- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). Stage acid and scale inhibitor if necessary to cover the next perforated interval.
- **Call flush at 0 PPG @ inline densiometers. Slow to 5 bbl/min over last 10-20 bbls of flush. Flush to top perf.**
- **If distance between plug and top perf of previous stage is less than 50', it is considered to be tight spacing - over flush stage by 5 bbls (from top perf)**
- Tubing Currently Landed @~9134
- Originally completed on 10/27/09

Relevant History

October 2009 – Original Mesaverde Completion

2/123/2011 – Most Recent Slickline – "Got Ultra Seal Plunger up with well. Ran in w/Scratch to SN at 9154, pulled out. Ran back with a Up Shear Fish Tool to SN, latched, pulled a Steel Spring, w/ single X-cups. Cups good. Light scale on spring. Ran in with a Sample Baler to tag TD at 9867, pulled sample, pulled out. Dropped Same Spring w/ single X-cups, chased w/1.910 Broach to tight spots from 2351 to 4230, could not beat on thru, pulled out. Ran in w/1.906 Broach, chased spring on to SN and set spring. Dropped Same Plunger. Returned to Production. Rigged down."

H2S History

None

Production Date	Gas (avg mcf/day)	Water (avg bbl/day)	Oil (avg bbl/day)	LGR (bbl/Mmcf)	Max H2S - Separator (ppm)
6/30/2011	0.00	0.00	0.00	#NA	
5/31/2011	253.58	15.23	6.74	86.63	
4/30/2011	260.70	15.27	7.77	88.35	
3/31/2011	268.45	15.94	7.52	87.36	
2/28/2011	281.61	15.86	7.54	83.07	
1/31/2011	292.58	17.06	4.74	74.53	
12/31/2010	310.42	16.65	5.55	71.50	

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Existing Perforations:

Zone	Perfs Top, ft.	Perfs Bot., ft	SPF	Holes
MESAVERDE	7780	7782	3	6
MESAVERDE	7804	7806	4	8
MESAVERDE	7872	7874	4	8
MESAVERDE	7900	7902	4	8
MESAVERDE	7940	7944	3	12
MESAVERDE	8000	8002	3	6
MESAVERDE	8058	8062	3	12
MESAVERDE	8116	8118	4	8
MESAVERDE	8180	8184	4	16
MESAVERDE	8356	8358	3	6
MESAVERDE	8388	8392	3	12
MESAVERDE	8434	8436	4	8
MESAVERDE	8468	8472	4	16
MESAVERDE	8588	8590	3	6
MESAVERDE	8616	8620	3	12
MESAVERDE	8711	8716	3	15
MESAVERDE	8786	8788	3	6
MESAVERDE	8864	8866	3	6
MESAVERDE	8926	8930	3	12
MESAVERDE	9012	9016	3	12
MESAVERDE	9088	9091	3	9
MESAVERDE	9174	9176	3	6
MESAVERDE	9198	9200	3	6
MESAVERDE	9254	9256	4	8
MESAVERDE	9278	9280	4	8
MESAVERDE	9342	9346	3	12
MESAVERDE	9452	9454	3	6
MESAVERDE	9462	9466	3	12
MESAVERDE	9550	9552	4	8
MESAVERDE	9694	9698	4	16

PROCEDURE: (If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work.)

1. MIRU. Control well with recycled water and biocide as required. ND WH, NU BOP's and test.

2. Broach tubing to SN. TOOH with 2-3/8", 4.7#, J-55 (or N-80) tubing (currently landed at ~9134'). Visually inspect / SCAN for scale and consider replacing if needed.

3. If tbg looks ok consider running a gauge ring to 7594' (50' below proposed CBP). Otherwise P/U a mill and C/O to 7594' (50' below proposed CBP).

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4. Set 8000 psi CBP at ~ 7544'.

5. ND BOPs and NU frac valves. Test frac valves and casing to 1000 and 3500 psi for 15 minutes each and to 6200 psi for 30 minutes; if pressure test fails contact Denver engineer and see notes. As per standard operating procedure install steel blowdown line to reserve pit from 4-1/2" X 9-5/8" annulus. Lock **OPEN** the Braden head valve. Annulus will be monitored throughout stimulation. If release occurs, stimulation will be shut down. Well conditions will be assessed and actions taken as necessary to secure the well. UDOGM will be notified if a release to the annulus occurs.

6. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	7492	7496	4	16
WASATCH	7512	7514	4	8

7. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gal of 15% HCl and let soak. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~7492' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

8. Set 8000 psi CBP at ~6,916'. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	6860	6866	4	24

9. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~6860' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

10. Set 8000 psi CBP at ~6,432'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6268	6272	3	12
WASATCH	6379	6382	4	12

11. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~6268' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

12. Set 8000 psi CBP at ~6,080'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6024	6030	4	24

13. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 4 on attached listing. Under-displace to ~6024' and flush only with recycled water.

14. Set 8000 psi CBP at~5,974'.

15. ND Frac Valves, NU and Test BOPs.

16. TIH with 3 7/8" mill, pump open sub, XN nipple and tubing.

17. Mill 4 plugs and clean out to a depth of 7524'.

18. Land tubing at 7200', drop ball and pump open sub. Flow back completion load. RDMO

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19. MIRU, POOH tbg and mill. TIH with POBS and mill.

20. Mill last plug @ 7544' clean out to PBTD at 9807'. Land tubing at ±9134' pump off bit and bit sub. This well WILL be commingled at this time.

21. Clean out well with foam and/or swabbing unit until steady flow has been established from completion.

22. **Leave surface casing valve open**. Monitor and report any flow from surface casing. RDMO

For design questions, please call
Zachary Garrity, Denver, CO
(720)-929-6180 (Office)
(406)-781-6427 (Cell)

For field implementation questions, please call
Jeff Samuels Vernal, UT
435-781-9770 (Office)

NOTES:

Service Company Supplied Chemicals - Job Totals

Friction Reducer	80	gals @	0.5	GPT
Surfactant	161	gals @	1.0	GPT
Clay Stabilizer	161	gals @	1.0	GPT
15% Hcl	1000	gals @	250	gal/stg
Iron Control for acid	5	gals @	5.0	GPT of aci
Surfactant for acid	1	gals @	1.0	GPT of aci
Corrosion Inhibitor for acid	2	gals @	2.0	GPT of aci

Party Supplied Chemicals Job Totals - Include Pumping Charge if Applicable

Scale Inhibitor	458	gals pumped per schedule above		
Biocide	80	gals @	0.5	GPT

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Fracturing Schedules
Name NBU 922-18K2
Slickwater Frac

Copy to new book

Recomplete?	y
Pad?	n
ACTS?	n

Swabbing Days	0	Enter Number of swabbing days here for recompletes
Production Log	0	Enter 1 if running a Production Log
DFIT	0	Enter Number of DFITs

Stage	Zone	Perfs Top, ft.	Perfs Bot., ft	SPF	Holes	Rate BPM	Fluid Type	Initial ppg	Final ppg	Fluid	Volume gals	Cum Vol gals	Volume BBLs	Cum Vol BBLs	Fluid % of frac	Sand % of frac	Sand lbs	Cum. Sand lbs	Footage from CBP to Flush	Scale Inhib., gal.
1	WASATCH	7492	7496	4	16	Varied	Pump-in test			Slickwater		0	0	0						
	WASATCH	7512	7514	4	8	0	ISIP and 5 min ISIP													45
	WASATCH					50	Slickwater Pad			Slickwater	3,427	3,427	82	82	15.0%	0.0%	0	0		10
	WASATCH					50	Slickwater Ramp	0.25	1	Slickwater	11,424	14,851	272	354	50.0%	37.3%	7,140	7,140		34
	WASATCH					50	Slickwater Ramp	1	2	Slickwater	7,997	22,848	190	544	35.0%	62.7%	11,995	19,135		0
	WASATCH					50	Flush (4-1/2)			Slickwater	4,891	27,738	116	660				19,135		0
	WASATCH						ISDP and 5 min ISDP			Slickwater										0
	WASATCH																			0
	WASATCH																	19,135		0
	WASATCH											27,738	116	660						45
	WASATCH																			134
	WASATCH																			
	WASATCH																			
	WASATCH									Sand laden Volume		22,848								
			# of Perfs/stage		24								Flush depth		7492	gal/md-ft	19,000	15,913	lbs sand/md-ft	
						13.2	<< Above pump time (min)									CBP depth	6,916		576	
2	WASATCH	6860	6866	4	24	Varied	Pump-in test			Slickwater		0	0	0						
	WASATCH					0	ISIP and 5 min ISIP													
	WASATCH					50	Slickwater Pad			Slickwater	3,078	3,078	73	73	15.0%	0.0%	0	0		9
	WASATCH					50	Slickwater Ramp	0.25	1	Slickwater	10,261	13,339	244	318	50.0%	37.3%	6,413	6,413		31
	WASATCH					50	Slickwater Ramp	1	2	Slickwater	7,183	20,522	171	489	35.0%	62.7%	10,774	17,187		0
	WASATCH					50	Flush (4-1/2)			Slickwater	4,478	25,000	107	595				17,187		0
	WASATCH						ISDP and 5 min ISDP			Slickwater										0
	WASATCH																			0
	WASATCH																	17,187		0
	WASATCH											25,000	107	595						42
	WASATCH																			82
	WASATCH																			
	WASATCH																			
	WASATCH									Sand laden Volume		20,522								
			# of Perfs/stage		24								Flush depth		6860	gal/md-ft	358,146	299,948	lbs sand/md-ft	
						11.9	<< Above pump time (min)									CBP depth	6,432		428	
3	WASATCH	6268	6272	3	12	Varied	Pump-in test			Slickwater		0	0	0						
	WASATCH	6379	6382	4	12	0	ISIP and 5 min ISIP													
	WASATCH					50	Slickwater Pad			Slickwater	6,470	6,470	154	154	15.0%	0.0%	0	0		19
	WASATCH					50	Slickwater Ramp	0.25	1	Slickwater	21,568	28,038	514	668	50.0%	37.3%	13,480	13,480		65
	WASATCH					50	Slickwater Ramp	1	2	Slickwater	15,097	43,136	359	1,027	35.0%	62.7%	22,646	36,126		0
	WASATCH					50	Flush (4-1/2)			Slickwater	4,092	47,227	97	1,124				36,126		0
	WASATCH						ISDP and 5 min ISDP			Slickwater										0
	WASATCH																			0
	WASATCH																	36,126		0
	WASATCH											47,227	97	1,124						39
	WASATCH																			123
	WASATCH																			
	WASATCH																			
	WASATCH									Sand laden Volume		43,136								
			# of Perfs/stage		24								Flush depth		6268	gal/md-ft	19,000	15,913	lbs sand/md-ft	
						22.5	<< Above pump time (min)									CBP depth	6,080		188	
4	WASATCH	6024	6030	4	24	Varied	Pump-in test			Slickwater		0	0	0						
	WASATCH					0	ISIP and 5 min ISIP													
	WASATCH					50	Slickwater Pad			Slickwater	9,135	9,135	217	217	15.0%	0.0%	0	0		27
	WASATCH					50	Slickwater Ramp	0.25	1	Slickwater	30,448	39,583	725	942	50.0%	37.3%	19,030	19,030		91
	WASATCH					50	Slickwater Ramp	1	2	Slickwater	21,314	60,897	507	1,450	35.0%	62.7%	31,971	51,001		0
	WASATCH					50	Flush (4-1/2)			Slickwater	3,932	64,829	94	1,544				51,001		0
	WASATCH						ISDP and 5 min ISDP			Slickwater										0
	WASATCH																			0
	WASATCH																	51,001		0
	WASATCH											64,829	94	1,544						0
	WASATCH																			119
	WASATCH																			
	WASATCH																			
	WASATCH									Sand laden Volume		60,897								
			# of Perfs/stage		24								Flush depth		6024	gal/md-ft	19,000	15,913	lbs sand/md-ft	
						30.9	<< Above pump time (min)									CBP depth	5,974		50	
						0.0														
	Totals				96						Total Fluid	164,795	gals	3,924	bbls		Total Sand	123,449		
												3,924	bbls							
						1.3								8.7	tanks				Total Scale Inhib. =	458

Name NBU 922-18K2
Perforation and CBP Summary

Stage	Zones	Perforations Top, ft	Perforations Bottom, ft	SPF	Holes		Fracture Coverage		
1	WASATCH	7492	7496	4	16		7487	to	7517.5
	WASATCH	7512	7514	4	8				
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	# of Perfs/stage				24		CBP DEPTH	6,916	
2	WASATCH	6860	6866	4	24		6854	to	6874.5
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	# of Perfs/stage				24		CBP DEPTH	6,432	
3	WASATCH	6268	6272	3	12		6258	to	6288.5
	WASATCH	6379	6382	4	12		6373	to	6384
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	# of Perfs/stage				24		CBP DEPTH	6,080	
4	WASATCH	6024	6030	4	24		6007	to	6046.5
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	# of Perfs/stage				24		CBP DEPTH	5,974	

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Acid Pickling and H2S Procedures (If Required)

**PROCEDURE FOR PUMPING ACID DOWN TBG

WHEN FINDING SCALE IN TUBING THAT IS ACID SOLUBLE, ENSURE THAT PLUNGER EQUIPMENT IS REMOVED AND ABLE TO PUMP DOWN TBG. INSTALL A 'T' IN PUMP LINE W/2" VALVE THAT NALCO CAN TIE INTO. HAVE 60 BBLS 2% KCL MIXED W/ 10-15 GAL H2S SCAVENGER IN RIG FLAT TANK. (WE USED THE RIG FLAT TANK FOR MIXING CHEMICAL SO WE DIDN'T HAVE THE CHEMICAL IN ALL FLUIDS ON LOCATION, ONLY WHAT WE NEEDED TO PUMP DOWN HOLE)

1. PUMP 5-10 BBLS 2% KCL DOWN TBG (NALCO CANNOT PUMP AGAINST PRESSURE)
2. NALCO WILL PUMP 3 DRUMS HCL (31%) INTO PUMP LINE.
3. FLUSH BEHIND ACID WITH 10-15 BBL 2% KCL
4. PUMP 2—30 BBL 2% W/ H2S SCAVENGER DOWN TBG.
5. PUMP REMAINDER OF 2% W/ H2S SCAVENGER DOWN CASING AND SHUT WELL IN FOR MINIMUM OF 2 HRS.
6. OVER DISPLACE DOWN TBG AND CSG TO FLUSH ACID AND SCAVENGER INTO FORMATION
7. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

** PROCEDURE FOR PUMPING H2S SCAVENGER WITHOUT ACID

PRIOR TO RIG MOVING ON OR AS RIG PULLS ONTO LOCATION. TEST CASING, TUBING AND SEPARATOR FOR H2S. IF FOUND MAKE SURE THAT PLUNGER SYSTEM IS REMOVED (IT IS POSSIBLE TO PUMP AROUND PLUNGERS BUT SOME WILL HAVE A STANDING VALVE IN SEATING NIPPLE).

1. MIX 10-15 GAL H2S SCAVENGER WITH 60-100 BBL 2% KCL IN RIG FLAT TANK.
2. PUMP 25 BBLS MIXTURE DOWN TUBING AND REST DOWN CASING. SHUT WELL IN FOR 2 HOURS.
3. IF WELL HAS PRESSURE AFTER 2 HOURS – RETEST CASING AND TUBING FOR H2S.
4. FLUSH TUBING AND CASING PUSHING H2S SCAVENGER INTO FORMATION.
5. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

** As per APC standard operating procedure, APC foreman will verify ALL volumes pumped and record on APC Volume Report Form

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Key Contact information

Completion Engineer

Zachary Garrity: 406-781-6427, 720-929-6180

Production Engineer

Brad Laney: 435/781-7031, 435/828-5469

Jordan Portillo: 435/781-9785, 435/828-6221

Laura M. Wellman: 435/781-9748, 435/322-0118

Completion Supervisor Foreman

Jeff Samuels: 435-828-6515, 435-781-7046

Completion Manager

Jeff Dufresne: 720-929-6281, 303-241-8428

Vernal Main Office

435-789-3342

Emergency Contact Information—Call 911

Vernal Regional Hospital Emergency: 435-789-3342

Police: (435) 789-5835

Fire: 435-789-4222

RECEIVED Nov. 04, 2011

Form 3160-4
(March 2012)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.: 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: RECOMPLETION

6. If Indian, Allottee or Tribe Name:

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

2. Name of Operator: KERR MCGEE OIL & GAS ONSHORE, L.P.

8. Lease Name and Well No.: NBU 922-18K2

3. Address: PO BOX 173779, DENVER, CO 80217

3a. Phone No. *(include area code)*: 720-929-6000

9. API Well No.: 4304739791

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

At surface: NESW 2545 FSL 1223 FWL S18, T9S, R22E LAT. 40.03576 LONG. 109.48568

At top prod. interval reported below

At total depth

10. Field and Pool or Exploratory: NATURAL BUTTES

11. Sec., T., R., M., on Block and Survey or Area: SEC 18, T9S, R22E SLB

12. County or Parish: UINTAH

13. State: UT

14. Date Spudded: 11/03/2008

15. Date T.D. Reached: 01/22/2009

16. Date Completed: ☐ D & A ☑ Ready to Prod. 08/10/2012

17. Elevations (DF, RKB, RT, GL)*: 4925 RKB

18. Total Depth: MD 9890 TVD 9887

19. Plug Back T.D.: MD 9808 TVD 9805

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

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

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled

24. 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	9117							

25. Producing Intervals / 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	6024	7514	6024-7514	0.36	96	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
6024-7514	PUMP 4,223 BBLS SLICK H2O & 123,820 LBS 30/50 OTTAWA SAND
	4 STAGES

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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
8/10/12	8/12/12	24	→	0	1590	0			FLOWING

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
24/64	392	896	→	0	1590	0		PRODUCING

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
			→					

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

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	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 *(Solid, 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	1735
				BIRD'S NEST	1937
				MAHOGANY	2582
				WASATCH	5062
				MESAVERDE	7795

32. Additional remarks (include plugging procedure):

Attached is the recompletion history and perforation report. Casing in the well is as previously reported on the original Completion Report. New recompletion perforations are: Wasatch 6024-7514; existing perforations: Mesaverde 7780-9698 . Iso plug was drilled out August 6, 2012 and zones are fully commingled. Test information is production from commingled zones.

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

☐ Electrical/Mechanical Logs (1 full set req'd.) ☐ Geologic Report ☐ DST Report ☐ Directional Survey

☐ Sundry Notice for plugging and cement verification ☐ Core Analysis ☐ Other:

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

Name *(please print)* LINDSEY FRAZIER Title REGULATORY ANALYST

Signature Lindsey Frazier Date 12-4-12

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

(Continued on page 3)

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-18K2 (YELLOW)	Spud Conductor: 11/3/2008	Spud Date: 12/25/2008
Project: UTAH-UINTAH	Site: NBU 922-18L PAD	Rig Name No: MILES 2/2, GWS 1/1
Event: RECOMPL/RESEREVEADD	Start Date: 5/15/2012	End Date: 8/7/2012
Active Datum: RKB @4,925.00usft (above Mean Sea Level)	UWI: NE/SW/0/9/S/22/E/18/0/0/6/PM/S/2,545.00/W/0/1,223.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
7/14/2011	10:00 - 10:15	0.25	COMP	48		P		HSM & JSA W/ROYAL WELL SERVICE
	10:15 - 18:00	7.75	COMP	31	I	P		MIRU - SPOT EQUIP - WHP = 630 PSI. BLOW WELL DWN TO F.B.T. PMP 15 BBLS DWN TBG & 25 BBLS DWN CSG TO CONTROL WELL. NDWH, NU BOP. RU FLOOR & TBG EQUIP. LD TBG HNGR. MIRU B & C QUICK TEST TO SCAN TBG. SCAN 287 JTS TBG OUT OF HOLE. (11 BAD JTS). RD WASHINGTON HEAD. SWI - SDFN. 50 BBLS TOTAL TO CONTROL WELL.
7/15/2011	6:45 - 7:00	0.25	COMP	48		P		HSM & JSA W/ROYAL WELL SERVICE
	7:00 - 9:00	2.00	COMP	34				WHP = 860 PSI. BLOW WELL DWN TO F.B.T. PMP 20 BBLS DWN CSG TO CONTROL WELL. MIRU CUTTERS WIRELINE, PU HALCO 4.5" 10K CBP. RIH SET PLUG @ 7570'. POOH & LD TOOLS. RDMO CUTTERS. ND BOP, NU F.V. SWI - RDMO WELL.
5/15/2012	7:00 - 7:15	0.25	COMP	48		P		JSA-SAFETY MEETING
	7:15 - 9:00	1.75	COMP	30	A	P		ROAD RIG FROM NBU 1021-29F4BS TO LOC,
	9:00 - 10:30	1.50	COMP	30	A	P		MIRU UNIT AND EQUIPT, N/D WH, N/U BOPS, R/U FLOOR,
	10:30 - 13:30	3.00	COMP	34	I	P		R/U CUTTER WIRELINE, RIH W/ GAUGE RING TO 7570', SET DN ON CBP, P/O OF HOLE, RIH W/ HALLIBURTON 8K CBP, SET CBP @ 7550', P/O R/D WIRELINE,
	13:30 - 17:30	4.00	COMP	33	C	P		PRESSURE TEST CSG TO 3150#, HOLD FOR 30 MIN W/ NO BLEED OFF, BLEED PRESSURE OFF, N/D BOPS, N/U FRAC VALVE, R/U B&C QUICK TEST, TEST #1, 1000# FOR 15 MIN LOST 20#, TEST #2, 3500#, FOR 15 MIN LOST 22#, TEST #3, 6200#, FOR 30 MIN LOST 74# TEST OK, BLEED PRESSURE OFF, SHUT WELL IN, R/D TESTER, SDFN.

Operation Summary Report

Well: NBU 922-18K2 (YELLOW)	Spud Conductor: 11/3/2008	Spud Date: 12/25/2008
Project: UTAH-UINTAH	Site: NBU 922-18L PAD	Rig Name No: MILES 2/2, GWS 1/1
Event: RECOMPL/RESEREVEADD	Start Date: 5/15/2012	End Date: 8/7/2012
Active Datum: RKB @4,925.00usft (above Mean Sea Level)	UWI: NE/SW/0/9/S/22/E/18/0/0/6/PM/S/2,545.00/W/0/1,223.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
5/21/2012	6:00 - 15:00	9.00	FRAC	36	E	P		6AM [DAY 4] JSA W/ SUPERIOR. MIRU SUPERIOR & CHS. [WASATCH ONLY RECOMPLETE] [STG#1] PERF & FRAC BY DESIGN. PERF @ 7492-7496 & 7512-7514. PMP'D 906 BBLS FLUID & 19,188# SAND. [STG#2] PERF & FRAC BY DESIGN. PERF @ 6860-6866. PMP'D 638 BBLS FLUID & 17,238# SAND. [STG#3] PERF & FRAC BY DESIGN. PERF @ 6268-6272 & 6379-6382. PMPD 1139 BBLS FLUID & 36,102# SAND. [STG#4] PERF & FRAC BY DESIGN. PERF @ 6024-6030'. PMPD 1540 BBLS FLUID & 51,292# SAND. GRAND TOTAL FLUID= 4223 BBLS & GRAND TOTAL SAND =123,820#. [KILL PLUG] SET KILL PLUG @ 5974'. SWI RDMO CHS. & SUPERIOR. WAIT ON DRILL OUT RIG.
5/24/2012	7:00 - 7:15	0.25	MIRU	48	C	P		HSM, MIRU
	7:15 - 7:15	0.00	MIRU	44	C	P		MIRU , SPOT EQUIP, R/U PUMP LINES, BLOW WELL DOWN, TBG=0#, CSG=0#, N/D WELL HEAD, N/U BOPS, R/U TBG EQUIP, P/U PUMP OPEN SUB W/ BIT, TALLLEY AND P/U 2-3/8 L-80 TBG, TAG KILL PLUG W/ 188 JNTS, @=5970',
	7:15 - 17:00	9.75	MIRU	44	C	P		P/U PWR SWVL, PRESSURE TEST TO 3,000# BRK CIRC W/ RIG PUMP, PLUG #1] DRL THROUGH HALIBURTON 8K CBP @= 5,970' IN 10 MIN, W/ 0# KICK PLUG #2] CONT TO RIH TAG @=6,060 [20' FILL] C/O AND DRL THROUGH CBP @=6,080' IN 5 MIN, W/ 0# KICK PLUG #3] CONT TO RIH TAG @=6,404 [30' FILL] C/O AND DRL THROUGH CBP @=6,434' IN 5 MIN, W/ 0# KICK PLUG #4] CONT TO RIH TAG @=6,886 [30' FILL] C/O AND DRL THROUGH CBP @=6,916' IN 5 MIN, W/ 400# KICK CIRC HOLE PULLED UP SHUT KELLEY IN FOR NIGHT.
5/25/2012	6:45 - 7:00	0.25	FRAC	48		P		HSM. GOOD COMUNICATION W/ FOAM UNIT HAND & RIG CREW.

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-18K2 (YELLOW)	Spud Conductor: 11/3/2008	Spud Date: 12/25/2008	
Project: UTAH-UINTAH	Site: NBU 922-18L PAD		Rig Name No: MILES 2/2, GWS 1/1
Event: RECOMPL/RESEREVEADD	Start Date: 5/15/2012		End Date: 8/7/2012
Active Datum: RKB @4,925.00usft (above Mean Sea Level)	UWI: NE/SW/0/9/S/22/E/18/0/0/6/PM/S/2,545.00/W/0/1,223.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:00 - 1:00		FRAC	44	C	P		SIWP = 250 #. OPEN WELL, BLOW WELL DOWN. CONT RIH TAG SAND @ 7520' = 30' SAND. MIRU WEATHERFORD FOAM UNIT W/ N2. BRK CONV CIRC W/ FOAM UNIT W/ N2 ASST. C/O 30' SAND DOWN T/ ISO PLUG @ 7550'. CIRC WELL CLEAN. SHUT DOWN FU. LET WELL FLOW FOR 2 HRS. FCPM = 200 PSI. P/U LD EXESS TBG & LAND TBG W/ KB = 26' FMC 4 1/16 TBG HNGR = .83 226 JTS L-80 TBG = 7165.96 PUMP OPEN BIT SUB = 3.15 EOT @ 7195.94 ND BOP, NUWH. DROP BALL. PUMP BIT OPEN W/ N2 UNIT @ 1450 PSI. OPEN WELL TO FBT. FTP @ 500 PSI. ON OPEN CHOKE. SICP @ 1000 PSI. TOTAL LOAD = 4223 BBL. RIG RECOVERD = 620 BBL. LEFT T/ RECAVER = 3603 BBLS. TBG TRAILER TOTAL JTS ON TBG TRAILER = 250. USED IN WELL = 226 JTS SENT BACK = 24 JTS
5/29/2012	7:00 - 7:15	0.25		48		P		HSM, SLIPS, TRIPS & FALLS, TRIPPING TBG
	7:15 - 15:00	7.75		31	I	P		SITP 50 PSI, SICP 1,600 PSI, OPEN WELL TO TANK TO BLEED DOWN, PUMP 20 BBLS DOWN TBG, ND WH, NU BOP, RU FLOOR & TBG EQUIP, WELL UNLOADED FCP 300 PSI TO TANK, SWI FOR 30 MIN PRESS BIULT TO 650 PSI, PUMP 20 BBLS DOWN CSG TO ATTEMPT TO BREAK CIRC UP TBG NO LUCK, DECIDED TO BRING WELL AROUND W/ AIR & N2 UNIT, RD FLOOR & TBG EQUIP, ND BOP, NU WH, RU AIR & N2 UNIT SWEEP TBG CLEAN, LET TBG FLOW & SWEEP CSG W/ AIR & N2, HOOKUP HAL 9000 LINES & INSTAL 48/64 CHOKE, T/O TO FBC, LEFT RIG RIGGED UP IN CASE WELL STOPS FLOWING, SDFN.
8/3/2012	7:00 - 7:30	0.50	DRLOUT	48		P		SCANNING TBG
	7:30 - 15:00	7.50	DRLOUT	45		P		MIRU,100# TBG-CSG, BLOW DWN WELL, KILL WELL WITH 20 BBLS DWN TBG, 20 BBLS DWN CSG, NDWH, NU BOP'S,UNLAND TBG, RU PRS, SCAN TBG OOH, LD SLIDING SLEEVE, 19 RED BAND JTS, TALLY NEW TBG ON TLR, SWIFWE
8/6/2012	7:00 - 7:30	0.50	DRLOUT	48		P		MILL PLUGS

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-18K2 (YELLOW)	Spud Conductor: 11/3/2008	Spud Date: 12/25/2008
Project: UTAH-UINTAH	Site: NBU 922-18L PAD	Rig Name No: MILES 2/2, GWS 1/1
Event: RECOMPL/RESEREVEADD	Start Date: 5/15/2012	End Date: 8/7/2012
Active Datum: RKB @4,925.00usft (above Mean Sea Level)	UWI: NE/SW/0/9/S/22/E/18/0/0/6/PM/S/2,545.00/W/0/1,223.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:30 - 15:00	7.50	DRLOUT	44				TIH WITH TBG TO 7554', TAG FILL AT 7491', PU PWR SWIVEL, RU FOAM TECH, MILL PLUG, TIH TO 7570', MILL CBP, RD PWR SWIVEL,TIH TO 289 JTS, 9180' TAGGED, PU PWR SWIVEL MILL OUT, FELL THROUGH, POOH 2 JTS RD PWR SWIVEL, EOT 9116' SWIFN
8/7/2012	7:00 - 7:30	0.50	DRLOUT	48		P		LANDING TBG
	7:30 - 15:00	7.50	DRLOUT	44		P		SITP 1100#, SICP 1500#, RU FOAM UNIT, PWR SWIVEL, TIH TO 309 JTS, 9813', BREAK CIRC, CIRC 30 MIN, RD FOAM UNIT, PWR SWIVEL, POOH TO 287 JTS, 9116.74', BROACH TO SN, LAND TBG, ND BOP'S, NU WH, DROP BALL, POBS 1500#,RDMO TBG 287 JTS 9087.71' HANGER .83' SN 1.875' 2.20' KB 26.00' EOT 9116.74' PBTD 9813' BTM PERF 9698'

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 922-18K2 (YELLOW)	**Wellbore No.**	OH
Well Name	NBU 922-18K2	**Wellbore Name**	NBU 922-18K2
Report No.	1	**Report Date**	7/12/2011
Project	UTAH-UINTAH	**Site**	NBU 922-18L PAD
Rig Name/No.		**Event**	RECOMPL/RESEREVEADD
Start Date	5/15/2012	**End Date**	8/7/2012
Spud Date	12/25/2008	**Active Datum**	RKB @4,925.00usft (above Mean Sea Level)
UWI	NE/SW/0/9/S/22/E/18/0/0/6/PM/S/2,545.00/W/0/1,223.00/0/0		

1.3 General

Contractor		**Job Method**	PERFORATE	**Supervisor**	
Perforated Assembly	PRODUCTION CASING	**Conveyed Method**	WIRELINE		

1.4 Initial Conditions

Fluid Type		**Fluid Density**	
Surface Press		**Estimate Res Press**	
TVD Fluid Top		**Fluid Head**	
Hydrostatic Press		**Press Difference**	
Balance Cond	NEUTRAL		

1.5 Summary

Gross Interval	6,024.0 (usft)-7,514.0 (usft	**Start Date/Time**	7/18/2011 12:00AM
No. of Intervals	6	**End Date/Time**	7/18/2011 12:00AM
Total Shots	96	**Net Perforation Interval**	25.00 (usft)
Avg Shot Density	3.84 (shot/ft)	**Final Surface Pressure**	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
7/18/2011 12:00AM	WASATCH/			6,024.0	6,030.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
7/18/2011 12:00AM	WASATCH/			6,268.0	6,272.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
7/18/2011 12:00AM	WASATCH/			6,379.0	6,382.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
7/18/2011 12:00AM	WASATCH/			6,860.0	6,866.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
7/18/2011 12:00AM	WASATCH/			7,492.0	7,496.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
7/18/2011 12:00AM	WASATCH/			7,512.0	7,514.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	

3 Plots

3.1 Wellbore Schematic