

**ENRON**  
**Oil & Gas Company**

P.O. Box 1815 Vernal, UT 84078 (801) 789-0790

**RECEIVED**  
AUG 30 1989

DIVISION OF  
OIL, GAS & MINING

August 18, 1989

R. J. Firth  
State of Utah  
Division of Oil, Gas & Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84150-1203

RE: COTTONWOOD FEDERAL 1-20  
SECTION 20, T9S, R21E  
UINTAH COUNTY, UTAH

Dear Mr. Firth:

Attached is the Application For Permit TO Drill, Survey Plats and Surface Use and Operating plans for the referenced wells.

If further information is required regarding this matter, please contact this office.

Very truly yours,

ENRON OIL & GAS COMPANY

  
Darrell E. Zionke  
District Manager

DEZ/1w  
0820mm/

Attachments:

cc: BIA  
D. Weaver  
R. Dean  
File

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL  DEEPEN  PLUG BACK

b. TYPE OF WELL  
 OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
 Enron Oil & Gas Company

3. ADDRESS OF OPERATOR  
 P.O. Box 1815, Vernal, Utah 84078

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)  
 At surface 2021 FSL 696 FEL  
 2,060' FSL & 624' FEL NE/SE → 7010 FOOTAGES / SEE REVISION

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5. LEASE DESIGNATION AND SERIAL NO.  
 U-0575

6. IF INDIAN, ALLOTTED OR TRIBE NAME  
 Ute Tribal Surface

7. UNIT AGREEMENT NAME  
 Natural Buttes

8. FARM OR LEASE NAME  
 Cottonwood Federal

9. WELL NO.  
 1-20

10. FIELD AND POOL, OR WILDCAT  
 Natural Buttes (630)

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 Sec. 20, T9S, R21E

12. COUNTY OR PARISH  
 Uintah

18. STATE  
 Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 38 Miles South of Vernal, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
 624

16. NO. OF ACRES IN LEASE  
 1,600

17. NO. OF ACRES ASSIGNED TO THIS WELL  
 160

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
 None

19. PROPOSED DEPTH  
 4,850' Green River

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 4,830' Dr

22. APPROX. DATE WORK WILL START\*  
 September 1989

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24.0	200'	200 sxs
7 7/8"	4 1/2"	13.5	4,850'	Sufficient to protect zones.

- See Attachemnts For:
- 8 Point Plan
  - Drilling Program
  - BOP Design
  - Surface Use and Operating Plan
  - Location Plat
  - Location Layout
  - TOPO Maps "A" & "B"
  - Area Map
  - Production Facilities Schematic
  - Road Right-of-Way & Damage Area

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Linda L. Wain 787-0790 TITLE Sr. Admin. Clerk DATE 8/18/89

(This space for Federal or State office use)

PERMIT NO. 43-047-31875 APPROVAL DATE \_\_\_\_\_

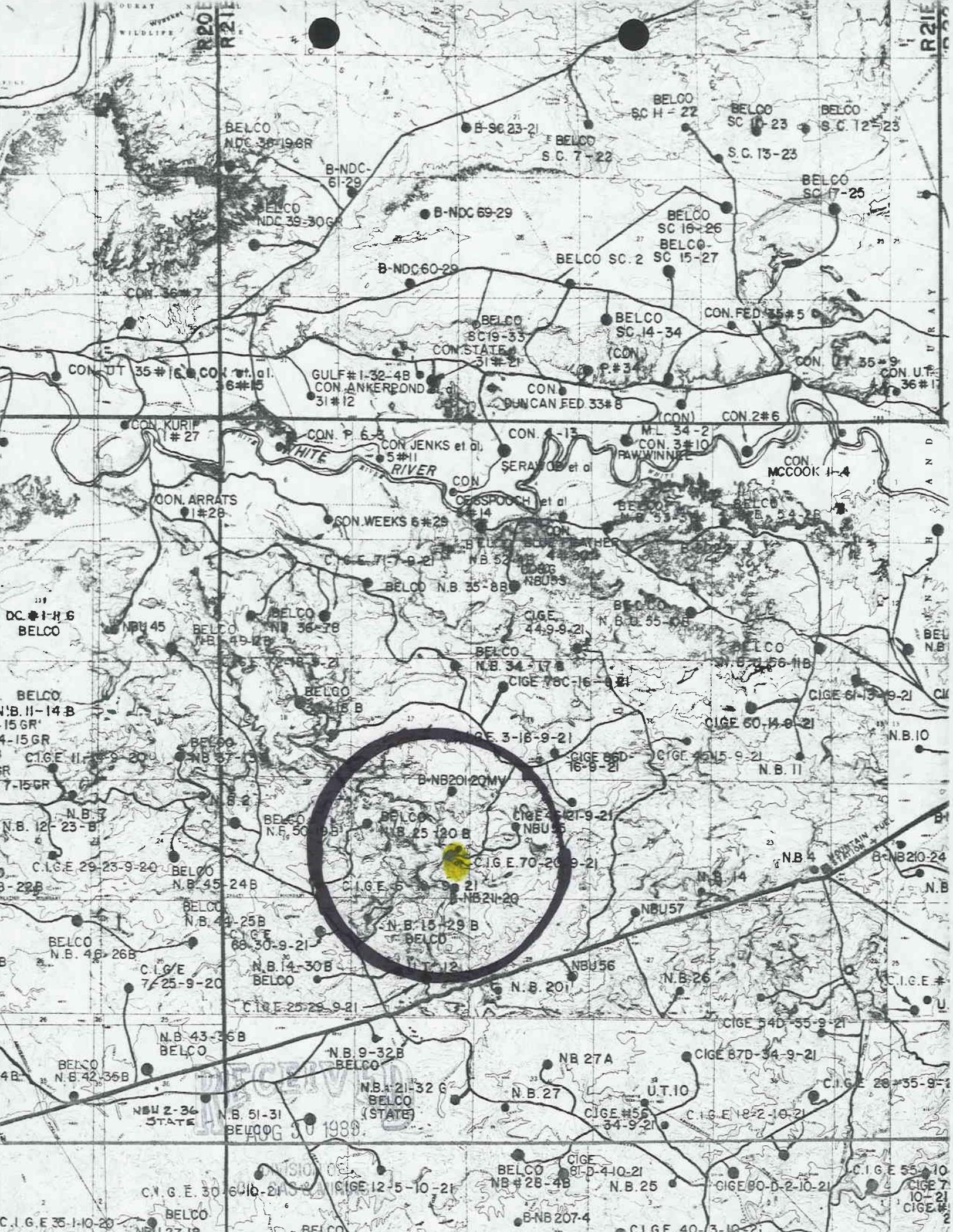
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING  
 DATE 10-16-89  
 BY: John R. Bays  
 WELL SPACING: Case No. 197-1

\*See Instructions On Reverse Side





BELCO NDC 38-19GR

BELCO SC H-22

BELCO SC 10-23

BELCO S.C. 12-23

B-NDC-61-29

BELCO S.C. 7-22

S.C. 13-23

BELCO NDC 39-30GR

B-NDC 69-29

BELCO SC 16-26

BELCO SC 17-25

B-NDC 60-29

BELCO SC. 2

BELCO SC 15-27

CON 36#7

BELCO SC 19-33

BELCO SC 14-34

CON. FED. 35#5

CON. UT 35#16

CON. et al. 36#15

GULF#1-32-4B  
CON. ANKERBOND  
31#12

CON. STATE 31#21

CON. #34

CON. 35#9

CON. UT 36#17

CON. DUNCAN FED 33#8

(CON) CON. 2#6

CON. KURIP #27

CON. P 6-3  
CON. JENKS et al.  
5#11

CON. 1-13

M.L. 34-2  
CON. 3#10

CON. MCCOOK 1-4

CON. ARRATS 1#28

CON. WEEKS 6#25

CON. CRESSPOUCH et al.  
#14

CON. SERAPHIN et al.

BELCO N.B. 53-5

BELCO N.B. 54-2B

C.I.G.E. 71-7-9-21

N.B. 52-21

CON. BLUE FEATHER

BELCO N.B. 55-4B

DC. #1-4 B  
BELCO

NBU 45

BELCO N.B. 49-2B

BELCO N.B. 36-7B

C.I.G.E. 44-9-9-21

BELCO N.B. 55-4B

BELCO N.B. 54-2B

BELCO N.B. 11-14 B  
15GR  
4-15GR

C.I.G.E. 11-15-9-20

BELCO N.B. 37-13

C.I.G.E. 2-18-9-21

BELCO N.B. 34-17 B

C.I.G.E. 78C-16-9-21

BELCO N.B. 54-2B

C.I.G.E. 61-13-9-21

N.B. 7  
N.B. 12-23-B

C.I.G.E. 29-23-9-20

BELCO N.B. 45-24B

C.I.G.E. 3-18-9-21

C.I.G.E. 60-14-9-21

C.I.G.E. 45-15-9-21

N.B. 11

N.B. 10

N.B. 12-23-B

C.I.G.E. 29-23-9-20

BELCO N.B. 45-24B

C.I.G.E. 3-18-9-21

C.I.G.E. 60-14-9-21

C.I.G.E. 45-15-9-21

N.B. 11

N.B. 10

N.B. 12-23-B

C.I.G.E. 29-23-9-20

BELCO N.B. 45-24B

C.I.G.E. 3-18-9-21

C.I.G.E. 60-14-9-21

C.I.G.E. 45-15-9-21

N.B. 11

N.B. 10

N.B. 12-23-B

C.I.G.E. 29-23-9-20

BELCO N.B. 45-24B

C.I.G.E. 3-18-9-21

C.I.G.E. 60-14-9-21

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N.B. 10

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N.B. 10

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C.I.G.E. 29-23-9-20

BELCO N.B. 45-24B

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C.I.G.E. 60-14-9-21

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N.B. 11

N.B. 10

N.B. 12-23-B

C.I.G.E. 29-23-9-20

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C.I.G.E. 3-18-9-21

C.I.G.E. 60-14-9-21

C.I.G.E. 45-15-9-21

N.B. 11

N.B. 10

N.B. 12-23-B

C.I.G.E. 29-23-9-20

BELCO N.B. 45-24B

C.I.G.E. 3-18-9-21

C.I.G.E. 60-14-9-21

C.I.G.E. 45-15-9-21

N.B. 11

N.B. 10



EIGHT POINT PLAN

COTTONWOOD FEDERAL 1-20  
SECTION 10, T9S, R21E  
UINTAH COUNTY, UTAH

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1. & 2. ESTIMATED TOPS & ANTICIPATED OIL, GAS & WATER ZONES:

FORMATIONS	DEPTH	TYPE ZONES	MAXIMUM PRESSURE
Uinta	Surface		
Green River	1,620		
"H" Marker	3,195		
Base "M" Marker	4,520		
M-8 Sandstone	4,625	Possible Gas	1,660 PSIG
M-10 Sandstone	4,720	Possible Gas	2,211 PSIG
EST.TD	4,850		

All depths are based on estimated KB elevation 4,840. All pressures are based on bottom hole pressures measured on off set wells.

3. PRESSURE CONTROL EQUIPMENT: BOP Schematic Diagram attached.

4. CASING PROGRAM:

HOLE SIZE	INTERVAL	LENGTH	SIZE	WEIGHT	GRADE	MINIMUM SAFETY FACTOR		
						COLLAPSE	BURST	TENSILE
12 1/4"	0' - 200'	200'	8 5/8"	24.0#	K-55 ST&C	2020 PSI	3520 PSI	423,000#
7 7/8"	0' - 4,850'	4,850'	4 1/2"	11.6#	K-55 LT&C	4960 PSI	5350 PSI	180,000#

All casing to be used will be new or inspected.

5. MUD PROGRAM:

INTERVAL	MUD TYPE	MUD WEIGHT	WATER LOSS	ADDITIVES
0' - 200'	Air Drill			
200' - 4,000'	Water			
4,000' - TD	2% KCL WTR w/Visco	40 Vis	8-10	Poly-acrylamide Anionic Polymer

Sufficient mud inventory will be maintained on location during drilling to handle any adverse conditions that may arise.

6. EVALUATION PROGRAM:

Logs: DLL: From TD to base of surface casing.  
FDC-CNL-GR  
Caliper BHC-GR: From TD to 2,000'

Cores: None Programmed.  
DST' : None

Completion: To be submitted at a later date.

EIGHT POINT PLAN

COTTONWOOD FEDERAL 1-20

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7. ABNORMAL CONDITIONS:

None anticipated.

8. STANDARD REQUIRED EQUIPMENT:

- A. Choke Manifold
- B. Kelly Cock
- C. Stabbing Valve
- D. Visual Mud Monitoring

0816MM/

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**DRILLING PROGRAM**

DATE: JULY 29, 1989 OF MINING

REVISION NO. & DATE: \_\_\_\_\_

PROSPECT: NATURAL BUTTES

LEASE: \_\_\_\_\_

WELL NUMBER: COTTONWOOD FEDERAL 1-20 STATE: Utah COUNTY Uintah

WELL CLASSIFICATION: DW-GAS ANTICIPATED PRODUCTION: OIL \_\_\_ GAS X OTHER \_\_\_

LOCATION CALL: \_\_\_\_\_

Section 20, T9S, R21E (NE SE)

Uintah County, Utah

ELEVATION: 4830' GL (Est.) 4840' KB Elevation (Est.)

DIRECTION LIMITATIONS: Maximum deviation for the hole will be 6° w/no more than a 1°/100' dogleg severity. See page number 4 for distance between surveys.

TYPE RIG: Land Rotary APPROVED DEPTH: 4850' PERMIT DEPTH 4850'

CONDUCTOR NEEDED? No IF YES, SIZE AND HOW SET \_\_\_\_\_

HOLE SIZE	CASING SIZE	DEPTH*	CEMENT PROGRAM
12-1/4"	8-5/8"	200'	200 sx Class "G" w/2% CaCl <sub>2</sub> & 1/4#/sx Flocele.
7-7/8"	4-1/2"	4850'	Cover interval from TD to 3000' with 50/50 Pozmix w/2% gel & 10% salt. Lite cement calculated to 1500'. Final volume to be calculated from Caliper log plus 10% excess. Circulate casing 1 hour minimum before cementing or until mud is not gas cut. Reciprocate casing during cementing.

CRITERIA FOR DETERMINING CASING SEAT FOR CRITICAL STRINGS: \_\_\_\_\_

WOC 4 hours before releasing from surface rig. Wait overnight before drilling rat and mouse holes.

SCRATCHERS: (DEPTH & TYPE): \_\_\_\_\_

PRODUCTION: RWC type, spaced 5' apart across (and 30' above and below) all zones of interest.

DRILLING PROGRAM

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WELL: COTTONWOOD FEDERAL 1-20

CENTRALIZERS: (DEPTH & TYPE): SURFACE: One 8' above shoe & one on 1st and 3rd collar.

PRODUCTION: One 8' above shoe joint and then one every other collar across all zones of interest.

STAGE COLLARS, BASKETS, OTHER SPECIAL EQUIPMENT: \_\_\_\_\_

SURFACE: Guide shoe & insert float collar w/top plugs.

PRODUCTION: Differential fill float shoe & differential fill float collar w/top & bottom plugs.

PUMPING RATES/SPECIAL INSTRUCTIONS: \_\_\_\_\_

SURFACE: Mix 4 sx gel in 10 bbls of fresh water. Pump water ahead to determine if water will circulate or if cement volume needs to be adjusted.

PRODUCTION: Circulate casing a minimum of 1 hour or until mud is not gas cut prior to cementing. Reciprocate casing 30' during cementing & displacement, but stop reciprocation when 10 bbls of displacement remain.

LOGGING PROGRAM: PRODUCTION: DLL from TD to base of surface casing.

FDC-CNL-GR Caliper & BHC-GR from TD to 2000' (2.68 matrix density, 0-150 GR) or minimum run. Q log over zones of interest. Continue Caliper to base of surface casing.

CORES: None anticipated.

SAMPLES: Collect 30' samples from below surface casing to 2000'. Collect 10' samples from 2000' to TD or as directed by wellsite geologist.

FORMATION TESTS: None anticipated.

MUD LOGGING: (INCLUDES SERVICES & DEPTH): From 2000' to TD.

Calibrate mud logger to 2000 units for saturation.

DETECTION & CONTROL EQUIPMENT:

10" rotating head, 10" 900 Series (3000 psig) BOP with blind and pipe rams.

10" 900 Series Annular Preventor. Test manifold & BOP's to 3,000 psig; annular preventor to 1500 psig after nipple up to surface pipe.

DRILLING PROGRAM

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DIVISION OF  
WELL: COTTONWOOD FEDERAL 11420

COMPLETION PROGRAM: To be submitted at a later date.

OTHER SERVICES: None anticipated.

FORMATION TOPS & DEPTHS (Tentative)

FORMATION NAME & TYPE   ESTIMATED DEPTH (EL)   DATUM   THICKNESS, REMARKS

See Attached Prognosis

Total Depth:                      4850'

Based on a KB (Est.) Elevation of 4840'.

\*PRIMARY OBJECTIVE(S)

XMAS TREE: 5000# Tbg Spool, 3000# Casing Head Flange. W.P.

ARTIFICIAL LIFT:

MUD PROGRAM

<u>DEPTH INTERVAL</u>	<u>MUD WT.</u>	<u>VIS.</u>	<u>CHLORIDES</u>	<u>OIL</u>	<u>W.L.</u>	<u>TYPE MUD</u>
<u>0'to 200'</u>						<u>AIR DRILL</u>
<u>200'to 4000'</u>						<u>WATER</u>
<u>4000'to T.D.</u>	<u>2% KCl water w/viscos sweeps to clean hole</u>					

1). At TD mud up w/poly-acrylamide anionic polymer (ASP 700 or Alcomer 120) to 40 vis & lower water loss to 8-10 cc.

2). Maintain 400 bbls of 10 ppg KCl brine water on location to kill gas flows if necessary. Do not close in unless absolutely necessary.

DRILLING PROGRAM

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WELL: COTTONWOOD FEDERAL 1-20  
OIL, GAS & MINING

DRILLING HAZARDS & SPECIAL INSTRUCTIONS: Lost circulation from surface to 1600'. Heaving/sticky shales in Wasatch. Potential gas kicks.

Reference Wells: CIGE #70, Section 20, T9S, R21E.

CASING & TUBING PROGRAM

SIZE	INTERVAL			WT. #/FT.	GRADE	THREAD	MINIMUM SAFETY FACTOR		
	FROM	TO	LENGTH				COLLAPSE	BURST	TENSILE
9-5/8"	0'	200'	200'	24.0#	K-55	ST&C	2020 psi	3520 psi	423,000#
4-1/2"	0'	4850'	4850'	11.6#	K-55	LT&C	4960 psi	5350 psi	180,000#

SURVEY SCHEDULE

DEPTH FROM TO		DISTANCE BETWEEN SURVEYS	MAXIMUM DEVIATIONS FROM VERTICAL	MAXIMUM CHARGE DEGREES/100'
0'	200'	100'	1 Degree	1/2 Degree
200'	TD	500' (or as needed)	6 Degrees	1 Degree

PREPARED BY: DENNIS J. BRABEC

APPROVED BY: DENNIS J. BRABEC, DRILLING SUPERINTENDENT

APPROVED BY: DARRELL E. ZLOMKE, DISTRICT MANAGER

RGT

BOP DIAGRAM

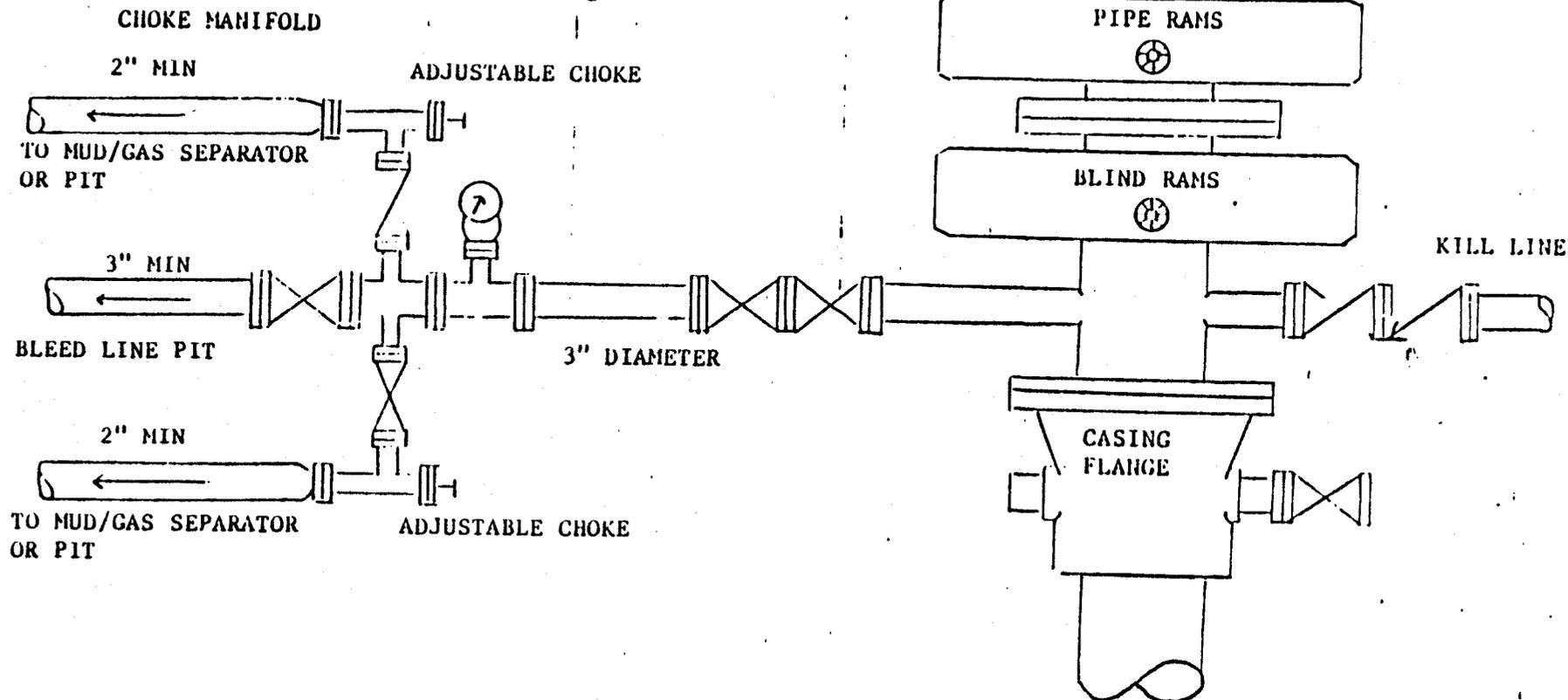
ANNULAR PREVENTOR AND BOTH RAMS ARE 900 SERIES.  
CASING FLANGE IS 10" 900-SERIES.  
BOPE 9" 3000#.

TESTING PROCEDURE:

1. Blind & Pipe rams will be tested to rated working pressure, 3000 psig.
2. Annular preventor will be tested to 50% of working pressure, 1500 psig. Will test every 30 days.
3. Casing will be tested to 0.22 psi/ft or 1500 psig. Not to exceed 70% of burst strength, whichever is greater. In this case 1716 psig.
4. They will be tested every 14 days.
5. There are two hydraulic controls, one on the rig floor and the other ground remote.
6. All lines subject to well pressure will be pressure tested to the same pressure as blind & pipe rams,
7. Hydraulic accumulator system should be 80 gals.

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FLORIDA



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SURFACE USE AND OPERATING PLAN

DIVISION OF  
OIL, GAS & MINING

WELL NAME: COTTONWOOD FEDERAL 1-20

LOCATION: 2,060' FSL & 624' FEL  
Sec. 20, T9S, R21E  
Uintah Co., Utah

1. EXISTING ROADS

- A. The proposed wellsite is located approximately 38 miles south of Vernal, Utah.
- B. Refer to the attached TOPO Map "A" for directions to the wellsite.
- C. Access to the proposed wellsite will be over existing State and County roads and Enron's planned access road. Traveling will be restricted to these roads only.
- D. See attached TOPO Map "B" for all roads within this vicinity.
- E. Roads will be maintained and repaired as necessary.

2. ACCESS ROAD

- A. See attached road right-of-way map.
- B. The proposed access road will be 16' subgrade, with V ditches along either side where it is determined necessary in order to handle any run-off from any normal meteorological conditions that are prevalent in this area.
- C. There will be no turn outs required.
- D. The access road will be dirt surface.
- E. No cattleguards will be required.
- F. No culverts will be required.
- G. The road will be centerline flagged prior to commencement of construction.

3. LOCATION OF EXISTING WELLS

- A. See attached area well map for all wells within a one mile radius of this vicinity.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

- A. Proposed production facilities diagram is attached should this well produce gas.
- B. All Production equipment owned and controlled by Enron will be kept on the location pad.
- C. All permanent structures constructed or installed will be painted a flat non-reflective earthtone color to match the standard environmental colors as selected by BLM for this area.
- D. A wire mesh fence will be maintained in good order around the disposal pit during the drilling and completion of the well.
- E. Should anything of significant value be turned up during construction of this wellsite, notification will be given to the proper authorities and all work will be stopped until clearance is given.

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OIL, GAS & MINING

5. LOCATION AND TYPE OF WATER SUPPLY

- A. Water will be hauled by West-Hazmat Trucking Corp.
- B. Water source is White River, SW/SE Sec. 5, T9S, R21E  
Water Right #49-1467  
Application #T64157

6. SOURCE OF CONSTRUCTION MATERIALS

- A. All construction material for this location and access road will be of native borrow and soil accumulated during the construction of location.
- B. No additional materials are anticipated at this time.

7. METHODS FOR HANDLING WASTE DISPOSAL

- A. See location layout.
- B. Drill cuttings, drilling fluids and produced fluids will be disposed of in the reserve pit on the location pad.
- C. This reserve pit upon completion of the drilling activities will be fenced on three sides with the open side on the rig side to protect all domestic animals and wildlife. This pit will be utilized during completion phase of the well for storage of produced fluids.
- D. A portable toilet will be provided for human waste during drilling phase of the well. This will be disposed of at the Vernal Sewage Disposal Plant.
- E. Garbage and other waste materials will be contained in a wire mesh cage and disposed of in an approved waste disposal facility.
- F. When the pit dries and the reclamation activities commence the pit will be covered to meet BIA & BLM requirements.

8. ANCILLARY FACILITIES

- A. No airstrips or camps are planned for this well.

9. WELL SITE LAYOUT

- A. See attached Location Layout.
- B. See Attached cross-section of the drill pad.
- C. See attached TOPO Map "B" for location of access road to location and rig orientation.
- D. As mentioned in item 7 "B" drill cuttings, drilling fluids and produced fluids will be contained in the reserve pit, so the surrounding area will not be contaminated. The pit will be lined with a gel and/or any other type material deemed necessary to make it safe and tight.

10. PLANS FOR RECLAMATION

- A. During the on site, the BIA & BLM will recommend where the topsoil will be stockpiled. When all drilling and production activities have been completed, the location site and access road will be reshaped to original contour and the stockpile topsoil spread over the disturbed area. Any drainages rerouted during the construction activities shall be restored to their original line of flow as near as possible.
- B. Reclamation and revegetation will take place as soon as the pits are completely dry. This will be done according to the BIA & BLM. The location site and access road shall be reseeded when the moisture content of the soil is adequate for germination.

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- C. As mentioned in #7, the reserve pit will be completely fenced and allowed to dry completely before covering.
- D. If necessary, overhead flagging will be installed if oil remains on pit after drilling is completed.
- E. Reclamation activities shall begin when the pit is sufficiently dry. Once reclamation activities have began, they shall be completed within 30 days. The lessee further convenants and agrees that all of said clean-up and reclamation activities shall be done and performed in a diligent and workmanlike manner and in strict conformity with the above mentioned items.
- F. Those portions of the location not needed for production operations will be reclaimed and reseeded to BIA & BLM specifications.

11. SURFACE OWNERSHIP

- A. Surface is controlled by Bureau of Indian Affairs.
- B. Other surface-use activities other than mineral exploration is livestock grazing.

12. OTHER INFORMATION

- A. See attached TOPO Map "A".
- B. Vegetation consists of sagebrush and native range grass. Wildlife consists of deer, antelope, birds and small rodents.

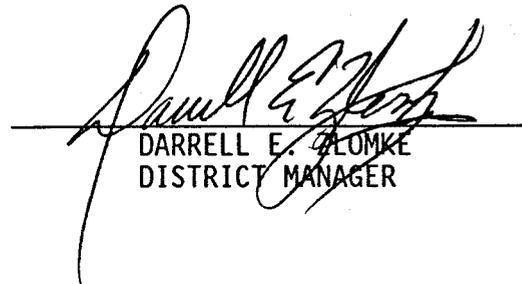
13. LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION

Enron Oil and Gas Company  
P.O. Box 1815  
Vernal, Utah 84078  
Creg Bowthorpe  
Telephone: (801) 789-0790

Enron Oil and Gas Company  
P.O. Box 250  
Big Piney, Wyoming  
Dennis Brabec  
Telephone: (307) 276-3331

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in the Plan are to the best of my knowledge, true and correct; and that the work associated with the operations proposed here in will be performed by ENRON OIL & GAS COMPANY and its contractors and sub-contractors in conformity with this Plan and the terms and conditions under which it is approved.

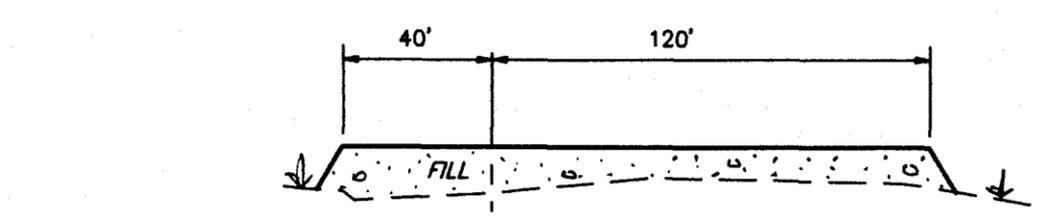
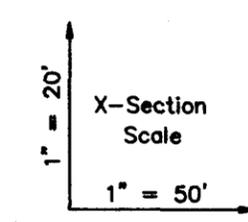
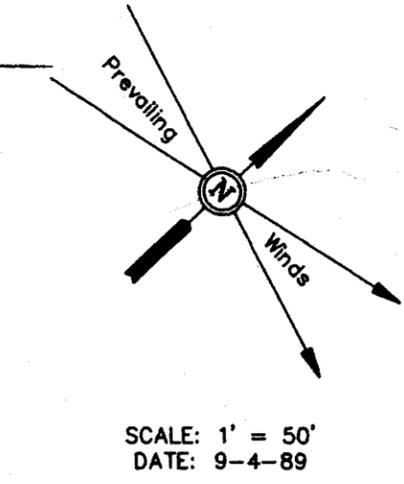
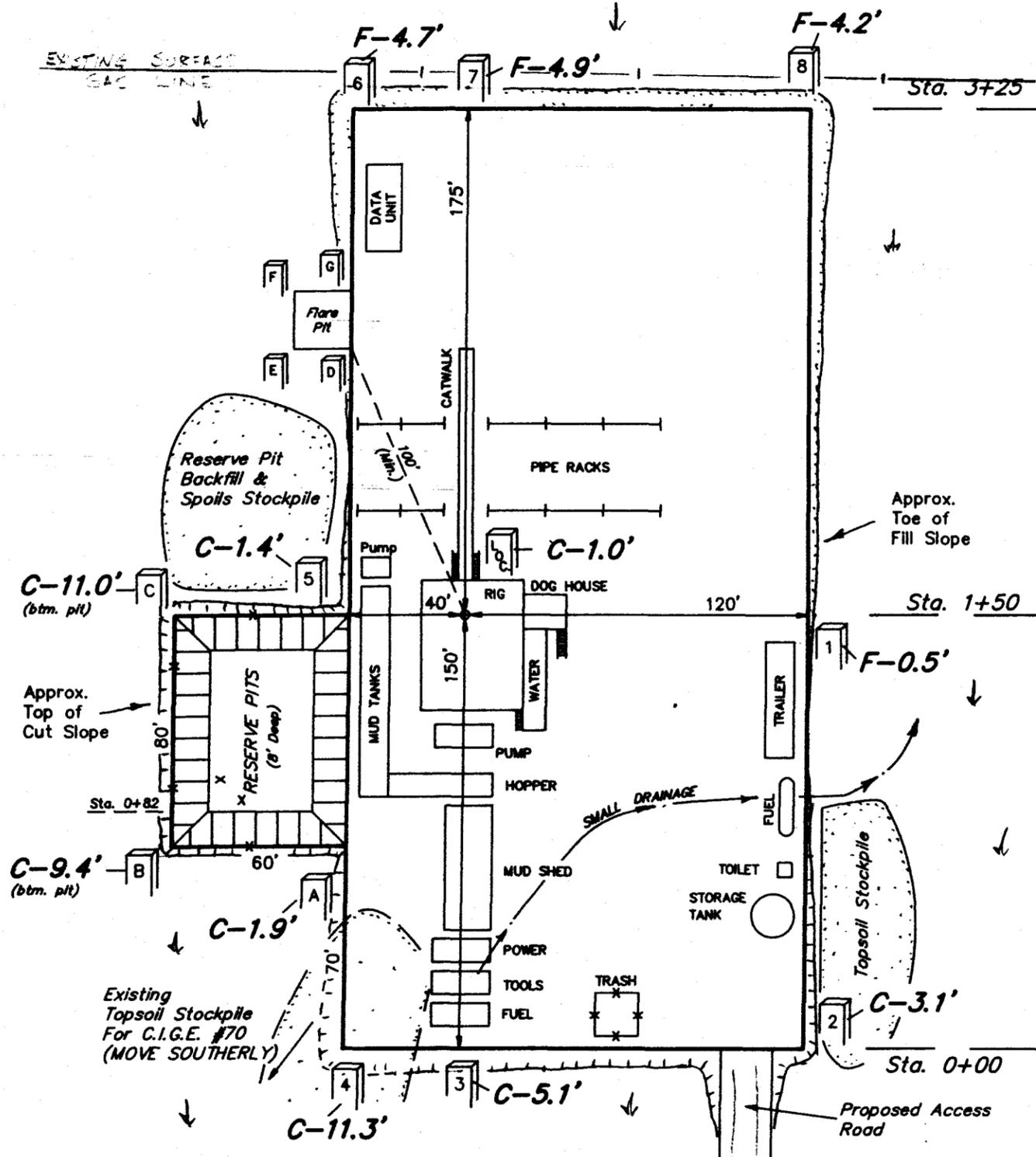
08/25/89  
DATE

  
DARRELL E. BLOMKE  
DISTRICT MANAGER

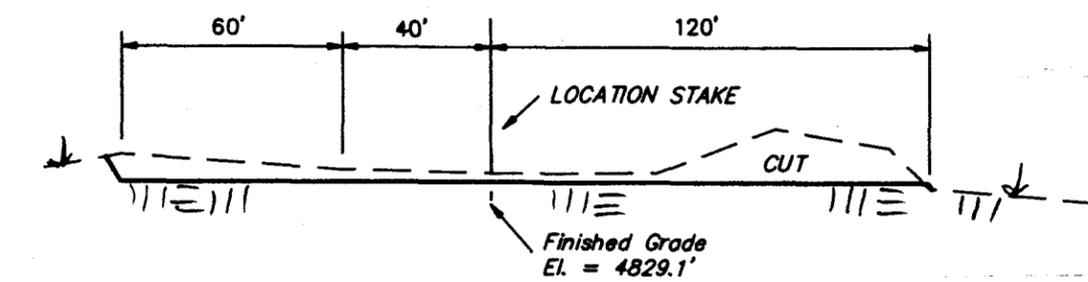
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0817mm/

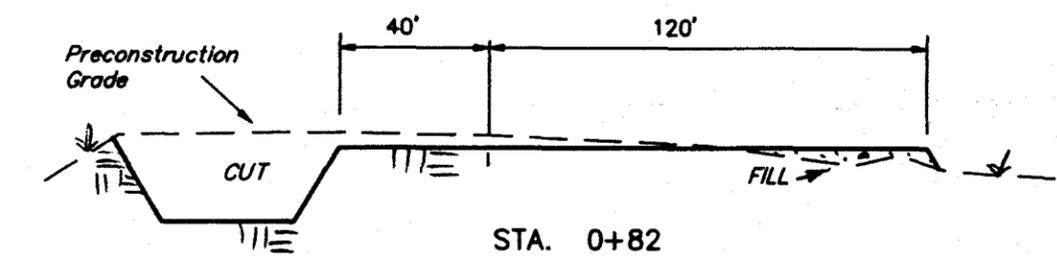
ENRON OIL & GAS CO.  
 LOCATION LAYOUT FOR  
 COTTONWOOD FEDERAL #1-20  
 SECTION 20, T9S, R21E, S.L.B.&M.



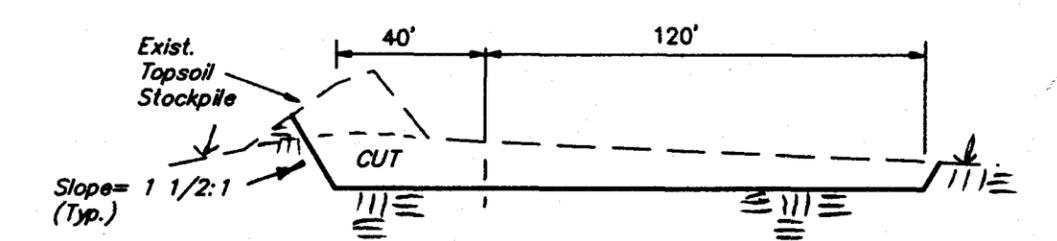
STA. 3+25



STA. 1+50



STA. 0+82



STA. 0+00

TYP. LOCATION LAYOUT  
 TYP. CROSS SECTIONS

NOTES:

Elev. Ungraded Ground At Loc. Stake = 4830.1'  
 FINISHED GRADE ELEV. AT LOC. STAKE = 4829.1'

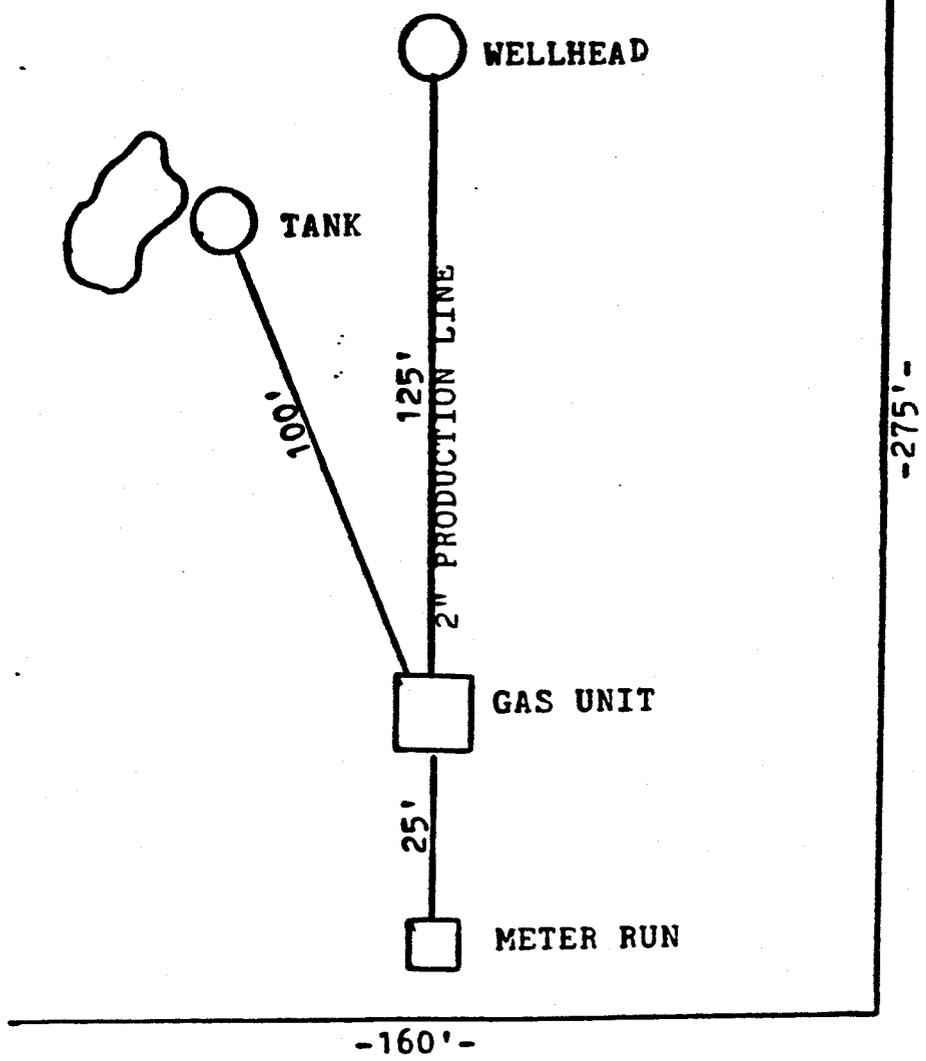
APPROXIMATE YARDAGES

CUT		EXCESS MATERIAL AFTER	
(6") Topsoil Stripping	= 1,052 Cu. Yds.	5% COMPACTION	= 1,557 Cu. Yds.
Pit Volume (Below Grade)	= 967 Cu. Yds.	Topsoil & Pit Backfill	= 1,536 Cu. Yds.
Remaining Location	= 2,035 Cu. Yds.	(1/2 Pit Vol.)	
<b>TOTAL CUT</b>	<b>= 4,054 CU.YDS.</b>	EXCESS UNBALANCE	= 21 Cu. Yds.
<b>FILL</b>	<b>= 2,372 CU.YDS.</b>	(After Rehabilitation)	

PRODUCTION FACILITIES SCHEMATIC FOR GAS HOOKUP

WELL NAME: COTTONWOOD FEDERAL 1-20

TEMPORARY PIT



**RECEIVED**  
AUG 30 1989

DIVISION OF  
OIL, GAS & MINING

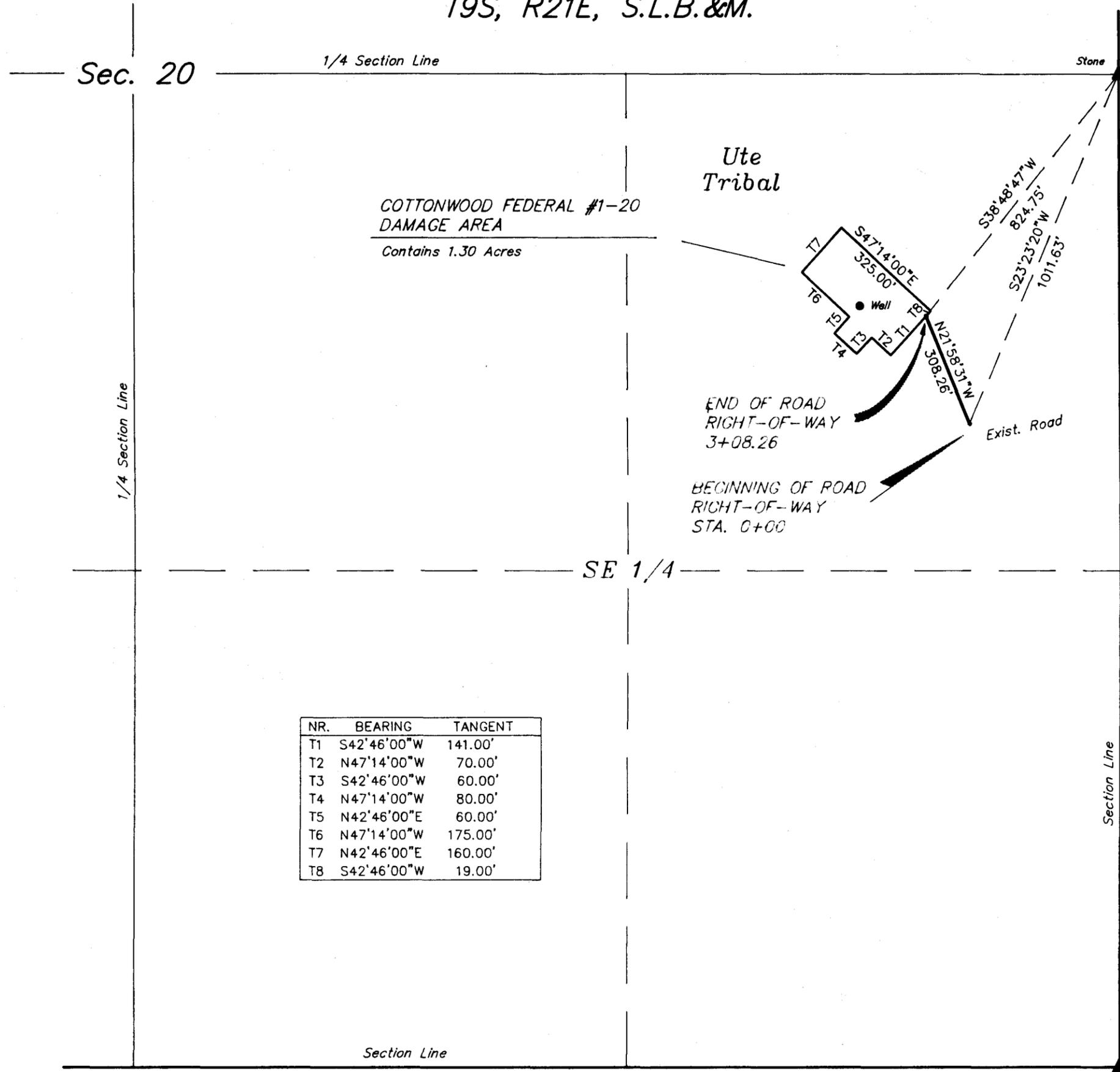
T9S, R21E, S.L.B.&M.

ENRON OIL & GAS CO.

**ROAD RIGHT-OF-WAY & DAMAGE AREA**

(For Cottonwood Federal #1-20)

LOCATED IN  
SECTION 20, T9S, R21E, S.L.B.&M.  
UINTAH COUNTY, UTAH



COTTONWOOD FEDERAL #1-20  
DAMAGE AREA  
Contains 1.30 Acres

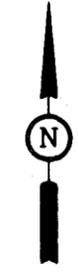
Ute Tribal

END OF ROAD  
RIGHT-OF-WAY  
3+08.26

BEGINNING OF ROAD  
RIGHT-OF-WAY  
STA. 0+00

NR.	BEARING	TANGENT
T1	S42°46'00"W	141.00'
T2	N47°14'00"W	70.00'
T3	S42°46'00"W	60.00'
T4	N47°14'00"W	80.00'
T5	N42°46'00"E	60.00'
T6	N47°14'00"W	175.00'
T7	N42°46'00"E	160.00'
T8	S42°46'00"W	19.00'

Section Line - 2636.52' (Measured) - N0°03'W (Basis of Bearings)



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.

*Robert L. Kay*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 5709  
STATE OF UTAH

<b>UINTAH ENGINEERING &amp; LAND SURVEYING</b> 85 SOUTH - 200 EAST • (801) 789-1017 VERNAL, UTAH - 84078		
SCALE 1" = 300'	DATE 9-5-89	REFERENCES G.L.O. PLAT
PARTY L.D.T. E.M. J.T.K.	WEATHER WARM	FILE ENRON OIL & GAS CO.

▲ = SECTION CORNERS USED.

ENRON OIL & GAS CO.  
COTTONWOOD FEDERAL #1-20

ROAD RIGHT-OF-WAY & DAMAGE AREA  
ON

UTE TRIBAL LANDS

LOCATED IN

SECTION 20, T9S, R21E, S.L.B.&M.

UINTAH COUNTY, UTAH

TOTAL ROAD RIGHT-OF-WAY ON UTE TRIBAL LANDS

TOTAL LENGTH OF RIGHT-OF-WAY IS 308.26' OR 0.06 MILES. WIDTH OF  
RIGHT-OF-WAY IS 30' (15' PERPENDICULAR ON EACH SIDE OF THE CENTERLINE).  
CONTAINS 0.21 ACRES MORE OR LESS.

ENGINEER'S AFFIDAVIT

STATE OF UTAH }  
COUNTY OF UINTAH } SS

ROBERT L. KAY, BEING FIRST DULY SWORN DEPOSES AND STATES THAT HE IS THE REGISTERED LAND SURVEYOR, FOR ENRON OIL & GAS CO., THAT THESE SURVEYS WERE MADE BY HIM (OR UNDER HIS SUPERVISION): THAT HE HAS EXAMINED THE FIELD NOTES OF THE SURVEYS OF THE DAMAGE AREA AND ROAD RIGHT-OF-WAY AS DESCRIBED AND SHOWN ON THIS MAP, THAT THIS MAP WAS PREPARED UNDER HIS DIRECTION FROM SAID FIELD NOTES; AND THAT SAID RIGHT-OF-WAY, 0.06 MILES IN LENGTH BEGINNING AND ENDING AS SHOWN ON THIS MAP IS ACCURATELY REPRESENTED.

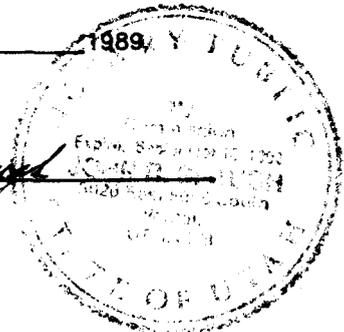
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 5709  
STATE OF UTAH

ACKNOWLEDGEMENT

SUBSCRIBED AND SWORN BEFORE ME THIS 5<sup>th</sup> DAY OF Sept. 1989

MY COMMISSION EXPIRES Sept. 16, 1992

John R. [Signature]  
NOTARY PUBLIC  
VERNAL, UTAH



## APPLICANT'S CERTIFICATE

I, \_\_\_\_\_, DO HEREBY CERTIFY THAT I AM THE AGENT FOR ENRON OIL & GAS CO., HEREINAFTER DESIGNATED THE APPLICANT; THAT ROBERT L. KAY WHO SUBSCRIBED TO THE FOREGOING AFFIDAVIT, IS EMPLOYED BY THE APPLICANT AS A LAND SURVEYOR AND THAT HE WAS DIRECTED BY THE APPLICANT TO SURVEY THE LOCATION OF THIS DAMAGE AREA AND ROAD RIGHT-OF-WAY, 0.06 MILES IN LENGTH BEGINNING AT STA. 0+00 AND ENDING AT STA. 3+08.26, THAT SAID DAMAGE AREA AND ROAD RIGHT-OF-WAY ARE ACCURATELY REPRESENTED ON THIS MAP; THAT SUCH SURVEY AS REPRESENTED ON THIS MAP HAS BEEN ADOPTED BY THE APPLICANT AS THE DEFINITE LOCATION OF THE RIGHT-OF-WAY THEREBY SHOWN; AND THAT THE MAP HAS BEEN PREPARED TO BE FILED WITH THE SECRETARY OF THE INTERIOR OR HIS DULY AUTHORIZED REPRESENTATIVE AS PART OF THE APPLICATION FOR SAID RIGHT-OF-WAY TO BE GRANTED THE APPLICANT, ITS SUCCESSORS AND ASSIGNS, WITH THE RIGHT TO CONSTRUCT, MAINTAIN, AND REPAIR IMPROVEMENTS, THEREON AND THEREOVER, FOR SUCH PURPOSES, AND WITH THE FURTHER RIGHT IN THE APPLICANT, ITS SUCCESSORS AND ASSIGNS TO TRANSFER THIS RIGHT-OF-WAY BY ASSIGNMENT, GRANT, OR OTHERWISE.

\_\_\_\_\_  
APPLICANT

\_\_\_\_\_  
TITLE

### DESCRIPTIONS

#### ROAD RIGHT-OF-WAY ON UTE TRIBAL LANDS

A 30' WIDE RIGHT-OF-WAY (15' PERPENDICULAR ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.)

BEGINNING AT A POINT IN THE SE 1/4 OF SECTION 20, T9S, R21E, S.L.B.&M. WHICH BEARS S23°23'20"W 1011.63' FROM THE EAST 1/4 CORNER OF SAID SECTION, THENCE N21°58'31"W 308.26' TO A POINT WHICH BEARS S38°48'47"W 824.75' FROM THE SAID EAST 1/4 CORNER. BASIS OF BEARINGS IS THE EAST LINE OF THE SAID SE 1/4 OF SECTION 20 WHICH IS ASSUMED FROM G.L.O. INFORMATION TO BEAR N0°03'W. CONTAINS 0.21 ACRES MORE OR LESS.

#### DAMAGE AREA

BEGINNING AT A POINT IN THE SE 1/4 OF SECTION 20, T9S, R21E, S.L.B.&M. WHICH BEARS S38°48'47"W 824.75' FROM THE EAST 1/4 CORNER SAID SECTION, THENCE S42°46'00"W 141.00'; THENCE N47°14'00"W 70.00'; THENCE S42°46'00"W 60.00'; THENCE N47°14'00"W 80.00'; THENCE N42°46'00"E 60.00'; THENCE N47°14'00"W 175.00'; THENCE N42°46'00"E 160.00'; THENCE S47°14'00"E 325.00'; THENCE S42°46'00"W 19.00' TO THE POINT OF BEGINNING. BASIS OF BEARINGS IS THE EAST LINE OF THE SAID SE 1/4 OF SECTION 20 WHICH IS ASSUMED FROM G.L.O. INFORMATION TO BEAR N0°03'W. CONTAINS 1.30 ACRES MORE OR LESS.

OPERATOR Enron Oil & Gas Co. (No 401) DATE 9-1-89

WELL NAME Cottonwood Fed. 1-20

SEC NESE 20 T 9S R 21E COUNTY Uintah

43-047-31875  
API NUMBER

Federal  
TYPE OF LEASE

CHECK OFF:

PLAT

BOND

NEAREST WELL

LEASE

FIELD

POTASH OR OIL SHALE

PROCESSING COMMENTS:

Coastal - 43-047-30636 within 300' NBW PGW/WSTC (see letter dated 9-7-89)  
Water Permit T64157 / 49-1467 (West-Hazmat Trucking Corp.)  
Exception to Cause 197-1 requested, see letter dated 9-7-89 & Exhibits  
Footages changed from 2060' FSL, 1624' FEL / Received 9-15-89  
Noticed 9-20-89. Publication dates 9-25-89 & 9-27-89. Process 10-13-89.

APPROVAL LETTER:

#3 of Unit Agreement - Wasatch formation only.

SPACING:

R615-2-3

Natural Buttes  
UNIT

R615-3-2

197-1 4-29-82  
CAUSE NO. & DATE

R615-3-3

STIPULATIONS:

1. R615-3-31 Oil shale Area Designation.

RECEIVED  
SEP 11 1989

# FILING FOR WATER IN THE STATE OF UTAH

Rec. by \_\_\_\_\_

Fee Rec. \_\_\_\_\_

Receipt # \_\_\_\_\_

Microfilmed \_\_\_\_\_

Roll # \_\_\_\_\_

DIVISION OF  
OIL, GAS & MINING

## APPLICATION TO APPROPRIATE WATER

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of Title 73, Chapter 3 of the Utah Code Annotated 1953, as amended.

**WATER RIGHT NUMBER: 49 - 1467**

**APPLICATION NO. T64157**

**1. PRIORITY OF RIGHT: August 18, 1989**

**FILING DATE: August 18, 1989**

**2. OWNER INFORMATION**

Name: West Hazmat  
Phone: (801) 722-3654  
Address: P. O. Box 1667, Vernal, UT 84078

Interest: 100 %

The land is not owned by the applicant(s), see explanatory.

**3. QUANTITY OF WATER: 10.0 acre feet (Ac. Ft.)**

**4. SOURCE: White River DRAINAGE: SE Uintah Basin**  
which is tributary to Green River  
which is tributary to Colorado River

**POINT(S) OF DIVERSION:**

**COUNTY: Uintah**

(1) N. 2000 feet, W. 1200 feet, from the SE Corner of Section 5,  
Township 9 S, Range 21 E, SLB&M

Description of Diverting Works: Pump truck  
**COMMON DESCRIPTION: 6 miles east of Ouray**

**5. NATURE AND PERIOD OF USE**

Oil Exploration From August 18 to August 17.

**6. PURPOSE AND EXTENT OF USE**

Oil Exploratio: Cottonwood federal oil well

**7. PLACE OF USE**

The water is used in all or parts of each of the following legal subdivisions.

TOWN	RANGE	SEC	North East Quarter				North West Quarter				South West Quarter				South East Quarter			
			NE%	NW%	SW%	SE%												
9	S	21	E	20	X	X	X	X	X	X	X	X	X	X	X	X	X	X

All locations in Salt Lake Base and Meridian

**EXPLANATORY**

The water is to be diverted from the White River for use in drilling Cottonwood Federal 1-20 oil well.

\*\*\*\*\*

This application is valid for one year after approval.

Appropriate

\*\*\*\*\*

The applicant hereby acknowledges he/they are a citizen(s) of the United States or intends to become such a citizen.

\*\*\*\*\*

The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purpose herein described.

\*\*\*\*\*

The undersigned hereby acknowledges that even though he/they may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the Division of Water Rights, all responsibility for the accuracy of the information contained therein, at the time of filing, rests with the applicant(s).

\_\_\_\_\_  
Signature of Applicant

# ENRON

## OIL & GAS COMPANY

RECEIVED  
SEP 11 1989

1801 California Street, Suite 3400 Denver, Colorado 80202-2634 (303) 293-2525

DIVISION OF  
OIL, GAS & MINING

September 7, 1989

State of Utah  
Division of Oil, Gas and Mining  
3 Triad Center, Suite 350  
355 West North Temple  
Salt Lake City, Utah 84180-1203

Attention: Ms. Lisha Romero

RE: Application for Exception Well  
Location  
Proposed Cottonwood Federal #1-20  
Township 9 South, Range 21 East  
Section 20: NE/4SE/4  
Uintah County, Utah

Gentlemen:

Reference is made to that certain spacing order promulgated in Cause No. 197-1 for the development and production of gas and associated hydrocarbons from the Green River formation. Said order established 160-acre drilling units covering, among other lands, the SE/4 of Section 20, Township 9 South, Range 21 East, Uintah County, Utah. The prescribed location of the permitted well therein shall be not less than 1000' from the exterior boundary of such drilling unit.

Enron Oil & Gas Company (Enron) proposes and respectfully requests permission to drill the Cottonwood Federal #1-20, a 4850' Green River test, at a location 2021' FSL, 696' FEL (NE/4SE/4) of Section 20, Township 9 South, Range 21 East, Uintah County, Utah, which is not a location at which a gas well could be drilled in compliance with the aforementioned spacing order.

The Cottonwood Federal #1-20 will TD in the Douglas Creek Member of the Green River formation: the Wasatch and Mesaverde Formations (the unitized zones in the Natural Buttes Unit) will not be penetrated. The objective of this well is a sand in what Enron informally refers to as the "M"-8 Zone of the Douglas Creek Member. The "M"-8 Zone contains stratigraphically trapped gas in fluvial channels in the area and mapping shows the sand to be highly lenticular and stratigraphically unpredictable in the area. The CIG Exploration 70-20-9-21 well, a Wasatch producer located at 1894' FSL, 804' FEL (NE/4SE/4) of Section 20, Township 9 South, Range 21 East, Uintah County, encountered a thick "M"-8 sand. Enron, as owner of the Green River rights in the area, wishes to drill a twin to this well to develop the "M"-8 gas. In order to reduce stratigraphic risk in these lenticular sands, Enron desires to drill as close to the control

State of Utah  
September 7, 1989  
Page 2 of 2

point as is topographically and logistically possible. The requested exception location is necessary for Enron to do so.

Enclosed herewith, as Exhibit "A," is a plat which depicts the outlines of the 160-acre drilling units established by the aforementioned spacing order, the legal window in each drilling unit within which the permitted well therein may be located (location at which a gas well could be drilled in the SE/4 of Section 20, Township 9 South, Range 21 East, Uintah County, Utah, in compliance with the order and locations at which gas wells could be drilled in accordance with the order in drilling units directly or diagonally offsetting the proposed exception), and the location at which Enron requests permission to drill the proposed Cottonwood Federal #1-20. No Green River wells have been drilled in any of these drilling units.

Also enclosed is Exhibit "B," a land map which displays Enron's ownership of 100% of the operating rights from the surface to the base of the Green River formation underlying the subject 160-acre drilling unit (SE/4 of Section 20, Township 9 South, Range 21 East, Uintah County, Utah) and all eight (8) directly and diagonally offsetting 160-acre drilling units. As you can see, there are no other owners involved.

Enron respectfully requests the Division of Oil, Gas and Mining administratively grant this application for an exception well location at its earliest opportunity.

Yours very truly,

ENRON OIL & GAS COMPANY



Toni Lei Macko  
Senior Landman

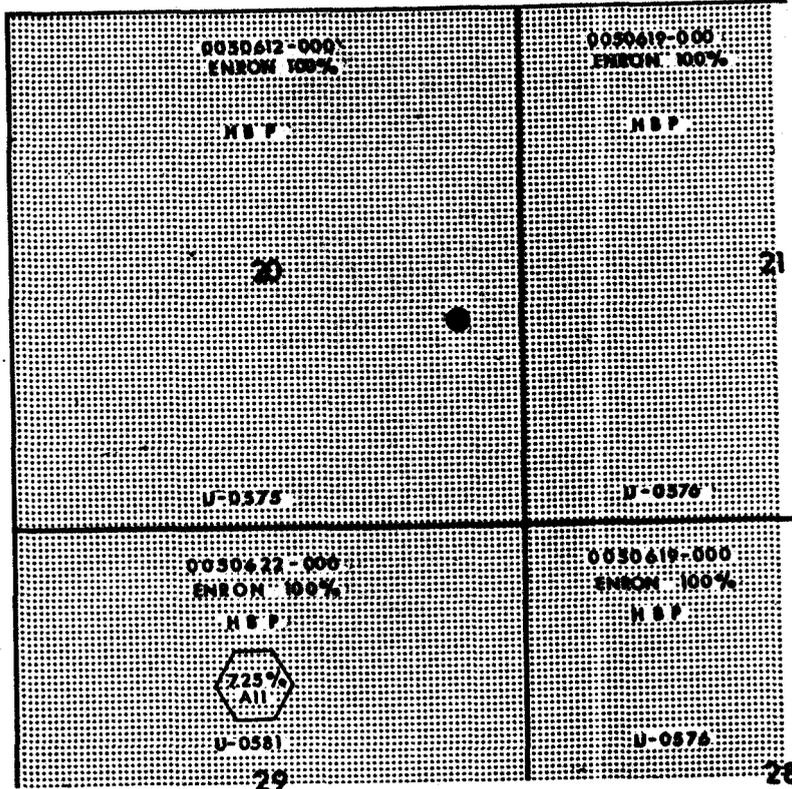
TLM/das  
Enclosures  
6066T

cc: R. Dean - Denver  
D.C. Bowthorpe - Vernal

**RECEIVED**  
SEP 11 1989

# R. 21 E.

DIVISION OF  
OIL, GAS & MINING



**T.  
9  
S.**

 ENRON FULL WORKING INTEREST

 ENRON ORRI

Information depicted on this Plat is limited to the Surface to Base of the Green River Formation

- Location at which applicant requests permission to drill (proposed Cottonwood Federal #1-20)

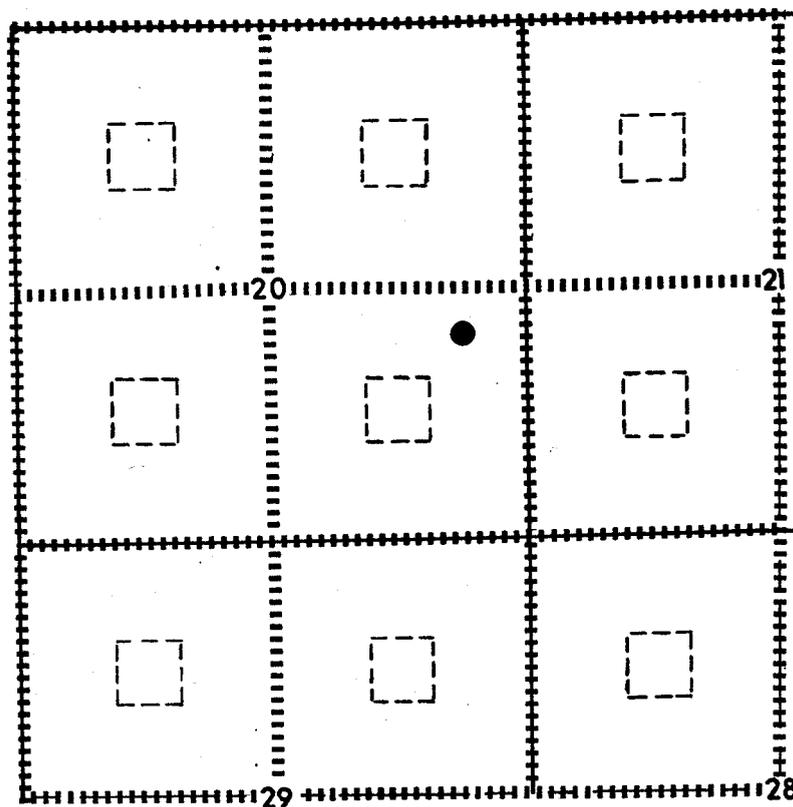
## Exhibit "B"

	<b>ENRON OIL &amp; GAS COMPANY</b>			
	HOUSTON DENVER MIDLAND CORPUS CHRISTI			
	<b>NATURAL DUCK PROSPECT</b> UINTAH COUNTY, UTAH			
	<b>LAND MAP</b>			
<b>Application for Exception Well Location</b>				
SCALE: 1" = 2000'	DRAWN BY HJP	DATED 9-29-89	DRAWN BY T.L. Mecho	DATED 9-28-89

**RECEIVED**  
SEP 11 1989

DIVISION OF  
OIL, GAS & MINING

# R. 21 E.



**T.  
9  
S.**

..... Drilling Units established for development and production of gas and associated hydrocarbons from Green River Formation under Cause No. 197-1

□ Legal Window within which permitted well could be drilled in each Drilling Unit.

● Location at which applicant requests permission to drill  
(Proposed Cottonwood Federal #1-20)

## Exhibit "A"

	<b>ENRON OIL &amp; GAS COMPANY</b>		
	HOUSTON DENVER MIDLAND CORPUS CHRISTI		
	<b>NATURAL DUCK PROSPECT</b> UINTAH COUNTY, UTAH		
	<b>Application for Exception Well Location</b>		
SCALE 1" = 2000'	DRAFTED BY RJP	DATED 9-7-89	DATED 9-89

**ENRON**  
**Oil & Gas Company**

P.O. Box 1815 Vernal, UT 84078 (801) 789-0790

September 13, 1989

**RECEIVED**  
SEP 15 1989

DIVISION OF  
OIL, GAS & MINING

Ms. Lisha Romero  
Division Of Oil, Gas and Mining  
3 Triad Center, Suite 350  
355 West North Temple  
Salt Lake City, Utah 84180-1203

RE: COTTONWOOD FEDERAL 1-20  
SECTION 20, T9S, R21E  
UINTAH COUNTY, UTAH

Dear Ms. Romero:

Attached please find a Sundry Notice changing the footage on the subject well.

If further information is required regarding this matter, please contact this office.

Very truly yours,

ENRON OIL & GAS COMPANY



Linda L. Wall  
Sr. Admin. Clerk

/lw  
0829mm/

Attachments:

cc: BIA  
BLM  
D. Zlomke  
D. Weaver

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

SUBMIT IN TRIPLICATE  
(Other instructions  
verse side)

Budget Bureau No. 1004-0135  
Expires August 31, 1985

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug wells.  
Use "APPLICATION FOR PERMIT" for such proposals.)

**RECEIVED**  
SEP 15 1989

1. <b>OIL WELL</b> <input type="checkbox"/> <b>GAS WELL</b> <input checked="" type="checkbox"/> <b>OTHER</b> <input type="checkbox"/>		5. <b>LEASE DESIGNATION AND SERIAL NO.</b> U-0575
2. <b>NAME OF OPERATOR</b> Enron Oil & Gas Company		6. <b>IF INDIAN ALLOTTEE OR TRIBE NAME</b> Ute Tribal Surface
3. <b>ADDRESS OF OPERATOR</b> P.O. Box 1815, Vernal, Utah 84078		7. <b>UNIT AGREEMENT NAME</b>
4. <b>LOCATION OF WELL</b> (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  2,021' FSL & 696' FEL NE/SE		8. <b>FARM OR LEASE NAME</b> Cottonwood Federal
14. <b>PERMIT NO.</b>		9. <b>WELL NO.</b> 1-20
15. <b>ELEVATIONS</b> (Show whether DF, RT, GR, etc.) 4,830'		10. <b>FIELD AND POOL, OR WILDCAT</b>
		11. <b>SEC., T., R., N., OR BLK. AND SURVEY OR AREA</b> Sec. 20, T9S, R21E
		12. <b>COUNTY OR PARISH</b> Uintah
		13. <b>STATE</b> Utah

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Footage Change</u> <input type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

The footage on this well has been changed from, 2,060' FSL & 624' FEL NE/SE, Sec. 20, T9S, R21E to, 2,021' FSL & 696' FEL NE/SE, Sec. 20, T9S, R21E.

See Attachments For:

- Location Plat
- Location Layout
- TOPO Maps "A" & "B"
- Road Right-of-Way & Damage Area

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

SIGNED *Linda L. Wall* TITLE Sr. Admin. Clerk DATE 9/14/89

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

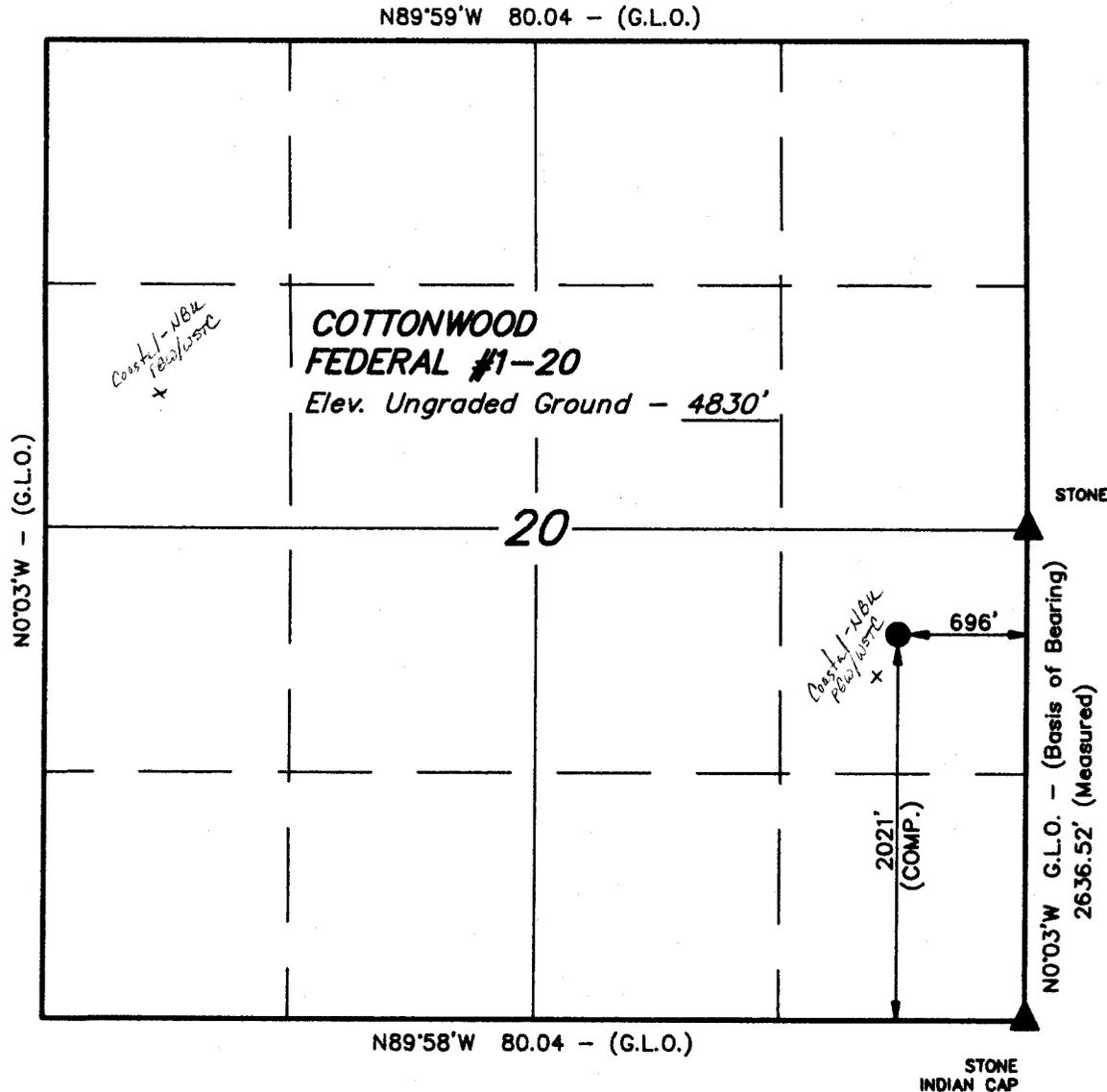
T9S, R21E, S.L.B.&M.

**ENRON OIL & GAS CO.**

WELL LOCATION, COTTONWOOD FEDERAL #1-20  
 LOCATED AS SHOWN IN THE NE 1/4 SE 1/4  
 OF SECTION 20, T9S, R21E, S.L.B.&M.  
 UINTAH COUNTY, UTAH.

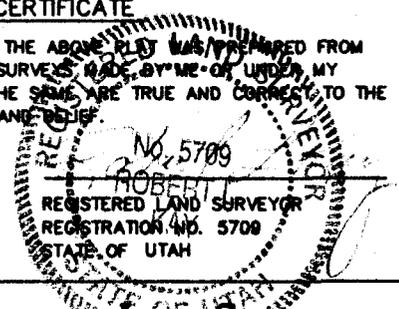
BASIS OF ELEVATION

SPOT ELEVATION AT THE SE CORNER OF SECTION 20,  
 T9S, 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 4886 FEET.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
 FIELD NOTES OF ACTUAL SURVEY MADE BY ME OR UNDER MY  
 SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
 BEST OF MY KNOWLEDGE AND BELIEF.



**UINTAH ENGINEERING & LAND SURVEYING**  
 P. O. BOX 1758 - 85 SOUTH - 200 EAST  
 VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 9-5-89
PARTY L.D.T. E.M. J.T.K.	REFERENCES G.L.O. PLAT
WEATHER WARM - SUNNY	FILE ENRON OIL & GAS CO.

▲ = SECTION CORNERS LOCATED.



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter  
Governor

Dee C. Hansen  
Executive Director

Dianne R. Nielson, Ph.D.  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340

September 20, 1989

Newspaper Agency Corporation  
Legal Advertising  
157 Regent Street  
Salt Lake City, Utah 84110

Gentlemen:

RE: Notice of Intention of Agency Action - Reference No. 31875

Enclosed is a Notice of Intention of Agency Action.

It is requested that this notice be published ONCE ONLY, as soon as possible. Upon completion of this request, please send proof of publication and statement of cost to the Division of Oil, Gas and Mining, 355 West North Temple, Suite 350, Salt Lake City, Utah 84180-1203.

Sincerely,

A handwritten signature in cursive script that reads "Lisha Romero".

Lisha Romero  
Administrative Analyst

WE35/10  
cc: R. J. Firth  
Enclosure



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

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355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340

September 20, 1989

Vernal Express  
P. O. Box 1000  
54 No. Vernal Avenue  
Vernal, Utah 84078

Gentlemen:

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Lisha Romero  
Administrative Analyst

WE35/10  
cc: R. J. Firth  
Enclosure



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

---ooOoo---

IN THE MATTER OF THE APPLICATION :	
OF ENRON OIL & GAS COMPANY :	
FOR ADMINISTRATIVE APPROVAL :	
OF AN EXCEPTION TO THE LOCATING :	NOTICE OF INTENTION
AND SITING REQUIREMENTS OF THE :	OF AGENCY ACTION
ORDER IN CAUSE NO. 197-1 FOR :	
THE PROPOSED COTTONWOOD :	REFERENCE NO. 31875
FEDERAL 1-20 WELL LOCATED IN :	
SECTION 20, TOWNSHIP 9 SOUTH, :	
RANGE 21 EAST, UINTAH :	
COUNTY, UTAH :	

---ooOoo---

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division is commencing an informal adjudicative proceeding to consider the application of Enron Oil & Gas Company for administrative approval of an exception to the locating and siting requirements of the Order in Cause No. 197-1 dated April 29, 1982, for the Cottonwood Federal 1-20 well located in Section 20, Township 9 South, Range 21 East, Uintah County, Utah. The proceeding will be conducted in accordance with the provisions of Rule R615-10, Administrative Procedures; Rule R615-3-3, Exception to Location and Siting of Wells; and with consideration of the locating and siting requirements of the Order in Cause No. 197-1 which prescribes 160 acre drilling units and well siting provisions for the development of the Green River formation.

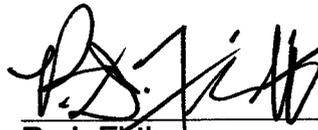
The applicant intends to drill the Cottonwood Federal 1-20 well to a proposed depth of 4850' to test the Green River formation. The well location, 2021 feet from the south line and 696 feet from the east line of Section 20, Township 9 South, Range 21 East, in the NE 1/4 SE 1/4, does not comply with the locating and siting requirements of the Order in Cause No. 197-1 for the Green River formation.

Page 2  
NOTICE OF INTENTION  
OF AGENCY ACTION

Interested parties desiring additional information or having objections to this matter should communicate with the undersigned. A hearing may be scheduled in this matter, if deemed necessary; however, in the absence of a written objection within fifteen days after publication of this notice, the Division will issue an administrative approval of the requested exception.

DATED this 20th day of September, 1989.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING



---

R. J. Fifth  
Associate Director, Oil & Gas

INFORMATION OF  
AGENCY ACTION  
REFERENCE NO.  
31875

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

IN THE MATTER OF THE APPLICATION OF ENRON OIL & GAS COMPANY FOR ADMINISTRATIVE APPROVAL OF AN EXCEPTION TO THE LOCATING AND SITING REQUIREMENTS OF THE ORDER IN CAUSE NO. 197-1 FOR THE PROPOSED COTTONWOOD FEDERAL 1-20 WELL LOCATED IN SECTION 20, TOWNSHIP 9 SOUTH, RANGE 21 EAST, UTAH COUNTY, UTAH. THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division is commencing an informal adjudicative proceeding to consider the application of Enron Oil & Gas Company for administrative approval of an exception to the locating and siting requirements of the Order in Cause No. 197-1 dated April 29, 1982, for the Cottonwood Federal 1-20 well located in Section 20, Township 9 South, Range 21 East, Uintah County, Utah. The proceeding will be conducted in accordance with the provisions of Rule R615-10, Administrative Procedures; Rule R615-3-3, Exception to Location and Siting of Wells; and with consideration of the locating and siting requirements of the Order in Cause No. 197-1 which describes 160 acre drilling units and well siting provisions for the development of the Green River formation.

The applicant intends to drill the Cottonwood Federal 1-20 well to a proposed depth of 4850' to test the Green River formation. The well location, 2021 feet from the south line and 696 feet from the east line of Section 20, Township 9 South, Range 21 East, in the NE 1/4 SE 1/4, does not comply with the locating and siting requirements of the Order in Cause No. 197-1 for the Green River formation.

Interested parties desiring additional information or having objections to this matter should communicate with the undersigned. A hearing may be scheduled in this matter, if deemed necessary; however, in the absence of a written objection within fifteen days after publication of this notice, the Division will issue an administrative approval of the requested exception.

DATED this 22nd day of September, 1989.  
STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
R. J. FIRTH  
Associate Director, Oil & Gas

Published in the Vernal Express Sept. 27, 1989.

# PROOF OF PUBLICATION

STATE OF UTAH, }  
County of Uintah } ss.

I, Nancy Colton

being duly sworn, depose and say, that I am the Business Manager of The Vernal Express, a weekly newspaper of general circulation, published each week at Vernal, Utah, that the notice attached hereto was published in said newspaper

for one publications,

the first publication having been made on

the 27th day of September, 1989.

and the last on the 27th day of

September, 1989, that said notice

was published in the regular and entire issue of every number of the paper during the period and times of publication, and the same was published in the newspaper proper and not in a supplement.

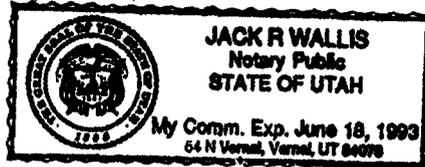
By Nancy Colton  
Manager

Subscribed and sworn to before me,

this 27th day of September

A. D. 19 89

Jack R. Wallis  
Notary Public, Residence, Vernal, Utah





# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangarter  
Governor  
Dee C. Hansen  
Executive Director  
Dianne R. Nielson, Ph.D.  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340

October 16, 1989

Enron Oil & Gas Company  
1801 California Street, Suite 3400  
Denver, Colorado 80202-2634

Gentlemen:

Re: Cottonwood Fed. 1-20 - NE SE Sec. 20, T. 9S, R. 21E - Uintah County, Utah  
2021' FSL, 696' FEL

Approval to drill the referenced well is hereby granted in accordance with the Order of Cause No. 197-1 dated April 29, 1982, subject to the following stipulation:

1. Special attention is directed to compliance with Rule R615-3-31, which prescribes drilling procedures for designated oil shale areas.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During Drilling, Form 7.
4. Prompt notification if it is necessary to plug and abandon the well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or Jim Thompson, Lead Inspector, (Home) 298-9318.
5. Compliance with the requirements of Rule R615-3-20, Gas Flaring or Venting, Oil and Gas Conservation General Rules.

6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.
7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-047-31875.

Sincerely,



R. J. Firth  
Associate Director, Oil & Gas

lcr  
Enclosures  
cc: Bureau of Land Management  
D. R. Nielson  
J. L. Thompson  
WE14/7-8

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL

DEEPEN

PLUG BACK

b. TYPE OF WELL

OIL WELL

GAS WELL

OTHER

SINGLE ZONE

WELL ZONE

2. NAME OF OPERATOR

Enron Oil & Gas Comapny

3. ADDRESS OF OPERATOR

P.O. Box 1815, Vernal, Utah 84078

DIVISION OF

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) **DRILLING, GAS & MINING**

At surface

2,031'

2,000' FSL & 696'

At proposed prod. zone

624' FEL NE/SE

API # 43-047-31875

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

38 Miles South of Vernal, Utah

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. 624  
(Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE

1,600

17. NO. OF ACRES ASSIGNED TO THIS WELL

160

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

None

19. PROPOSED DEPTH

4,850'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

4,830'

22. APPROX. DATE WORK WILL START\*

September 1989

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24.0	200'	200 sx's
7 7/8"	4 1/2"	13.5	4,850'	Sufficient to protect zones.

See Attachemnts For:

- 8 Point Plan
- Drilling Program
- BOP Design
- Surface Use and Operating Plan
- Location Plat
- Location Layout
- TOPO Maps "A" & "B"
- Area Map
- Production Facilities Schematic
- Road Right-of-Way & Damage Area



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

*Linda L. Wain*

TITLE

Sr. Admin. Clerk

DATE

8/18/89

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

*[Signature]*

TITLE

ASSISTANT DISTRICT  
MANAGER MINERALS

DATE

12-1-89

CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

\*See Instructions On Reverse Side

UT080-9M39

# memorandum

DATE: November 14, 1989

REPLY TO  
ATTN OF: Superintendent, Uintah and Ouray Agency

SUBJECT: Enron Oil and Gas Company: Cottonwood Federal Unit 1-20  
Sec. 20, T.9 S., R. 21 E.

TO: Bureau of Land Management, Vernal District Office  
Attention: Mr. Ralph Brown

We (concur with) (recommend) approval of the Application for Permit to Drill on the subject wells.

Based on available information received on September 6, 1989, we have cleared the proposed location in the following areas of environmental impact.

YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	Listed threatened or endangered species.
YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	Critical wildlife habitat.
YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	Archaeological or cultural resources.
YES <input type="checkbox"/>	NO <input type="checkbox"/>	Air quality aspects (to be used only if Project is in or adjacent to a Class I area of attainment)
YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	Other (if necessary)

REMARKS: Concurrence pertains to the Ute Tribal Surface only; as the sub-surface is Federal Minerals.

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company Enron Oil & Gas Company Well No. Cottonwood Fed. 1-20  
Location NE/SE Sec. 20 T 9 S R 21 E Lease No. U-0575

Approval of this application 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.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

A. DRILLING PROGRAM

1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to Tim Ingwell of this office. Copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., and individual components shall be operable as designed.

The Vernal District Office shall be notified, with sufficient lead time, in order to have a BLM representative on location during pressure testing.

3. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on every fourth joint of casing starting with the shoe joint and up to the bottom of the cellar.

Useable water may be encountered from +258 to 528 ft. in the Uinta Formation and from +1718-1898 ft. and +3068-3418 ft. in the Green

River Formation. The Mahogany oil shale and L1 oil shale have been identified from +2350-2440 ft. and +2535-2635 ft., respectively. Therefore, the resources will be isolated and/or protected via the cementing program for the production casing by having a cement top at least 200 ft. above the oil shale. If gilsonite is encountered in the subsurface, it will need to be isolated and/or protected.

The District Office shall be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.

4. Mud Program and Circulating Medium

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the Authorized Officer. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the Authorized Officer.

A cement bond log (CBL) shall be utilized to determine the top of cement (TOC) for the intermediate and production casing.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the Authorized Officer (AO).

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

The spud date will be reported orally to the AO within 48 hours after spudding. If the spudding occurs on a weekend or holiday, the report will be submitted on the following regular work day. The oral report will be followed up with a Sundry Notice.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Pursuant to NTL-2B, with the approval of a District Engineer, produced water may be temporarily disposed of into unlined pits for a period of up to 90 days. During the period so authorized, an application for approval of the permanent disposal method, along with the required water analysis and other information, must be submitted to the District Engineer.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District 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 43 CFR 3162.7-4.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form

3160-5, will be filed with the AO within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

Pursuant to Onshore Oil and Gas Orders, lessees and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in a manner which conforms with applicable Federal laws and regulations and with State and local laws and regulations to the extent that such State and local laws are applicable to operations on Federal or Indian lands.

#### 7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All site security guidelines identified in Onshore Oil and Gas Order No. 3 regulations will be adhered to.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the AO.

Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried or anchored down from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The AO 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 will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or work-over program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An additional one (1) year approval period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hour approvals are necessary, please contact one of the following individuals:

Gerald E. Kenczka (801) 781-1190  
Petroleum Engineer

Ed Forsman (801) 789-7077  
Petroleum Engineer

Vernal BLM FAX Number (801) 789-3634

Revised October 1, 1985

Date NOS Received 8/28/89

CONDITIONS OF APPROVAL  
FOR THE SURFACE USE PROGRAM OF THE  
APPLICATION FOR PERMIT TO DRILL

Company/Operator Enron Oil & Gas Company  
Well Name & Number Cottonwood Federal 1-20  
Lease Number U-0575  
Location NE 1/4 SE 1/4 Sec. 20 T. 9 S. R. 21 E.  
Surface Ownership Ute Tribal Surface Administered by the BIA

B. THIRTEEN POINT SURFACE USE PROGRAM:

1. Planned Access Roads

Length - 300 feet

Drainage design - is in the APD.

All travel will be confined to existing access road rights-of-way.

Access roads and surface disturbing activities will conform to standards outlined in the Surface Operating Standards for Oil and Gas Exploration and Development (1989, U.S. Department of the Interior, Bureau of Land Management, and U.S. Department of Agriculture, Forest Service).

The road shall be upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Upgrading shall include ditching, draining, graveling, crowning, and capping the roadbed as necessary to provide a well constructed safe road. Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 30 foot right-of-way will not be allowed. Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.

2. Location of Existing and/or Proposed Facilities

If a tank battery is constructed on this location, the battery shall be surrounded by a containment structure of sufficient volume to contain, at a minimum, the entire content of the largest tank within the facility/battery.

All permanent (on site for six months or longer) structures constructed or installed (including pumping units) will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within 6 months of installation. Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded.

3. Methods for Handling Waste Disposal

Burning will not be allowed. All trash must be contained in a trash cage and hauled away to an approved disposal site at the completion of the drilling activities.

Pits are not to be located in natural drainages where a flood hazard exists or surface runoff will destroy or damage the pit walls, unless otherwise herein provided.

On BIA administered lands:

The production pit at the adjacent CIGE 70-20 location will be used for a blooie pit or flare pit during drilling activities. A small reserve pit will also be constructed as indicated in the layout diagram.

Pits will be constructed so as not to leak, break, or allow discharge of liquids.

Produced waste water will be confined to an unlined pit or storage tank for a period not to exceed 90 days after initial production. During the 90 day period an application for approval of a permanent disposal method and location, along with required water analysis, will be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance.

4. Well Site Layout

All pits will be fenced with a wire mesh fence and topped with at least one strand of barbed wire. The reserve pit fencing will be on three sides during drilling operations and on the fourth side when the rig moves off the location. Any hydrocarbons on the pit will be removed from the pit as soon as possible after drilling operations are completed. Pits will be fenced and maintained until clean-up. The fence will be constructed as prescribed in the fencing policy attached. Alternatives to the prescribed standards shall be submitted to the Authorized Officer for approval.

Well Site Layout: The reserve pit will be located as indicated in the layout diagram.

The stockpiled topsoil will be stored on the: North of the location near stake number 2 in the northeast corner.

Access to the well pad will be from the: Southeast side of the location with a short access road of about 300 feet length connecting to the existing well service road.

5. Plans for Restoration of Surface

The following are provisions to be addressed in the restoration plan:

Immediately upon well completion, the location and surrounding area will be cleared of all debris, materials, trash and junk not required for production.

Before any dirt work to restore the location takes place, the reserve pit must be completely dry and all cans, barrels, pipe, etc. will be removed. The reserve pit and that portion of the location and access road not needed for production facilities/operations will be reclaimed. The reserve pit will be reclaimed within one year from the date of well completion.

All disturbed areas will be recontoured to the approximate natural contours.

The stockpiled topsoil will be evenly distributed over the disturbed areas.

Prior to reseeding, all disturbed areas, including the access roads, will be scarified and left with a rough surface.

Seed will be broadcast or drilled at a time specified by the BIA. If broadcast, a harrow or some other implement will be dragged over the seeded area to assure seed coverage and the seed mixture will be proportionately larger (double the lbs. per acre).

An appropriate seed mixture will be determined by the BIA, either as part of the Conditions of Approval of the APD or at the time restoration activities are scheduled to begin.

All seeding will be done from September 15 until the ground freezes.

At such time as the well is plugged and abandoned, the operator will submit a surface reclamation plan to the Surface Management Agency for prescribed seed mixtures and reseeding requirements.

If the seeding is unsuccessful, the lessee/operator may be required to make subsequent seedings.

On BIA administered lands:

Abandoned well sites, roads, or other disturbed areas will be restored to near their original condition. This procedure will include: (a) reestablishing irrigation systems where applicable, (b) reestablishing soil conditions in irrigated fields in such a way as to insure cultivation and harvesting of crops and, (c) insuring revegetation of the disturbed areas to the specifications of the Ute Indian Tribe or the BIA at the time of abandonment.

The operator will submit a plan of controlling noxious weeds along rights-of-way for roads, pipelines, well sites or other applicable facilities. A list of noxious weeds can be obtained from the appropriate county extension office.

## 6. Other Additional Information

A cultural resource clearance will be required before any construction begins on Federal and Indian lands. However, historic and cultural resource work shall be undertaken only with the written consent of a private surface owner. If the private surface owner refuses entry for that purpose, the lessee or operator shall use its best efforts to conduct its approved operations in a manner that avoids adverse effects on any properties which are listed, or may be eligible for listing, in the NRHP.

If, during operations, any archaeological or historical sites, or any object of antiquity (subject to the Antiquities Act of June 8, 1906) are discovered, all operations which would affect such sites are to be suspended and the discovery reported promptly to the Surface Management Agency.

The operator will control noxious weeds along rights-of-way for roads, pipelines, well sites or other applicable facilities. A list of noxious weeds may be obtained from the BLM, BIA, FS, or the appropriate County Extension Office.

On BLM administered land it is required that a Pesticide Use Proposal shall be submitted and given approval prior to the application of herbicides or other pesticides or possible hazardous chemicals.

### On BIA administered land:

Operator's employees, including subcontractors, will not gather firewood along roads constructed by operators. If wood cutting is required, a permit will be obtained from the Forestry Department of the BIA pursuant to 25 CFR 169.13 "Assessed Damages Incident to Right-of-Way Authorization". All operators, subcontractors, vendors and their employees or agents may not disturb saleable timber (including firewood) without a duly granted wood permit from the BIA Forester.

If the surface rights are owned by the Ute Indian Tribe and mineral rights are owned by another entity, an approved rights-of-way will be obtained from the BIA before the operator begins any construction activities. If the surface is owned by another entity and the mineral rights are owned by the Ute Indian Tribe, rights-of-way will be obtained from the other entity.

All roads constructed by operators on the Uintah and Ouray Indian Reservation will have appropriate signs. Signs will be neat and of sound construction. They will state: (a) that the land is owned by the Ute Indian Tribe, (b) the name of the operator, (c) that firearms are prohibited to all non-Ute Tribal members, (d) that permits must be obtained from the BIA before cutting firewood or other timber products and (e) only authorized personnel permitted.

All well site locations on the Uintah and Ouray Indian Reservation will have an appropriate sign indicating the name of the operator, the lease serial number, the well name and number, the survey description of the well (either footages or the quarter-quarter section, the section, township, and range).

Additional Surface Stipulations for BLM, BIA, FS, DWR, or Private Surface Lands:

The operator or his contractor shall contact the BLM and BIA Offices at (801) 789-1362 (BLM) and (801) 722-2406 (BIA) between 24 and 48 hours prior to construction activities. Contact the Book Cliffs Resource Area.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved plan of operations, and any applicable Notice to Lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

The dirt contractor will be provided with an approved copy of the Surface Use Plan from the APD.

This drilling permit will be valid for a period of one year from the date of approval. After permit termination, a new application will be filed for approval for any future operations.

**MINIMUM FENCING STANDARDS FOR  
EXPLORATION AND PRODUCTION PITS  
VERNAL DISTRICT OFFICE  
NOVEMBER 24, 1989**

- 1) FENCE: 39 inch net wire shall be used with at least one strand of barbed wire on top of the net wire (the barbed wire is not necessary IF pipe or some other acceptable type of reinforcement rod is attached to the top of the entire fence).
  
- 2) WIRE SPACING: The bottom of the net wire shall be no more than 2 inches above the ground. The barbed wire strand shall be 3 inches above the top of the net wire. Total height of the fence shall be at least 42 inches.
  
- 3) CORNER BRACES: Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
  
- 4) LINE POSTS: Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 feet.
  
- 5) FENCE CONSTRUCTION: All wire shall be stretched tight before the wire is attached to the corner braces. Pulling the wire tight by hand without the use of a stretching device is not acceptable.

An operator may request the authorized officer to approve a variance from the prescribed minimum fencing standards. All such requests shall be submitted in writing to the appropriate authorized officer and provide information as to the circumstances which warrant approval of the variance(s) requested and the proposed alternative methods by which the minimum standard(s) are to be satisfied. The authorized officer, after considering all relevant factors may approve the requested variance(s) if it is determined that the proposed alternative(s) meet or exceed the objectives of the applicable minimum standard(s).

ORE THE BOARD OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES AND ENERGY  
in and for the STATE OF UTAH

-----  
IN THE MATTER OF THE APPLICATION )  
OF COASTAL OIL & GAS CORPORATION ) ORDER  
FOR AN ORDER ESTABLISHING 160-ACRE )  
DRILLING AND SPACING UNITS FOR ) CAUSE NO. 197-1  
LANDS IN THE NATURAL BUTTES AREA, )  
UINTAH COUNTY, UTAH )  
-----

Pursuant to due notice by the Board of Oil, Gas and Mining dated April 5, 1982, this cause came on regularly for hearing before the Board of Oil, Gas and Mining, Department of Natural Resources and Energy of the State of Utah, at 10:00 a.m., on Thursday, April 29, 1982, in the Governor's Board Room, State Capitol Building, Salt Lake City, Utah.

The following Board Members were present:

Charles R. Henderson, Chairman

E. Steele McIntyre

Edward T. Beck

Margaret Bird

John L. Bell

Robert R. Norman

Herm Olsen

Appearances were made as follows:

For Coastal Oil & Gas Corporation: Robert Irwin, Esq.

For the U.S.G.S.: Ed Gynn

For TOSCO: Phillip Lear, Esq.

NOW, THEREFORE, the Board having fully considered all motions, the testimony adduced, and the exhibits received at said hearing, and being fully advised in the premises, now makes and enters the following:

FINDINGS

1. That due and regular notice of the time, place and purpose of the hearing was given to all interested parties in the form and manner and within the time required by law and the rules and regulations of the Board.
2. That the Board has jurisdiction over all matters covered by said notice and over all parties interested therein and has the power and authority to make and promulgate the Order hereinafer set forth.
3. That one well within a 160 acre drilling unit will efficiently and economically drain the recoverable gas and associated hydrocarbons from

197-1

197-1

the hereinafter described lands, and that a 160 acre drilling unit is not larger than the maximum area that can be efficiently and economically drained by one well.

4. That for the purpose of this Order, the base of the Green River formation is defined as the stratigraphic equivalent of the correlation point established at the depth of 4,822 feet below Kelly Bushing in the Ute Trail #10 well drilled by DeKalb Petroleum Company in the NE/4 SW/4 of Section 34, Township 9 South, Range 21 East, S.L.M., Uintah County, Utah.

5. That horizontal drilling units should be established comprising each governmental one quarter section, or governmental lots corresponding thereto, i.e., 160 acres, more or less, for the interval described above in paragraph 4 covering the lands hereinafter described.

6. ~~That the location for each permitted well shall be not less than 1000 feet from the exterior boundary of each drilling unit.~~

7. That the area under consideration in this matter is underlain by oil shale and all wells drilled to the base of the Green River formation will penetrate said oil shale.

Pursuant to the foregoing Findings of Fact, the Board hereby makes the following

#### O R D E R

1. The lands in Uintah County, State of Utah, known and believed to be underlain by gas and associated hydrocarbons that can be produced from the ~~Green River formations~~ are as follows:

Township 9 South, Range 20 East, SLBM  
Sections 12 thru 15  
Sections 21 thru 28  
Sections 33 thru 36

Township 9 South, Range 21 East, SLBM  
Sections 7 thru 35

Township 10 South, Range 20 East, SLBM  
Sections 1 and 12

Township 10 South, Range 21 East, SLBM  
Sections 2 thru 9

2. The 160-acre horizontal drilling units be and the same are hereby established covering the lands described above in paragraph 1 for the development and production of gas and associated hydrocarbons from the Green River formation.

3. That the location for each permitted well shall be less than 1000 feet from the exterior boundary of each drilling unit.

4. That the base of the Green River formation is defined as the stratigraphic equivalent of the correlation point established at the depth of 4,822 feet below Kelly Bushing in the Ute Trail #10 well drilled by DeKalb Petroleum Company in the NE/4 SW/4 of Section 34, Township 9 South, Range 21 East, S.L.M., Uintah County, Utah.

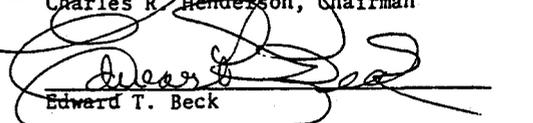
5. That any casing set into or through the oil shale section shall be cemented solidly through the oil shale section above the casing shoe and all production casing strings shall be cemented to the surface.

6. That the Board retains continuing jurisdiction over all matters covered by this Order and all other applicable orders and over all parties affected thereby and particularly that the Board retains and reserves continuing jurisdiction to make further orders as it may deem appropriate and as authorized by statute and applicable regulations.

ENTERED this 29th day of April, 1982.

BOARD OF OIL, GAS AND MINING

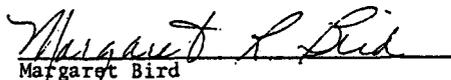
  
Charles R. Henderson, Chairman

  
Edward T. Beck

\_\_\_\_\_  
John L. Bell

  
Herm Olsen

\_\_\_\_\_  
E. Steel McIntyre

  
Margaret Bird

\_\_\_\_\_  
Robert R. Norman

DIVISION OF OIL, GAS AND MINING

API NO. 43-047-31875

SPUDDING INFORMATION

NAME OF COMPANY: ENRON COMPANY

WELL NAME: COTTONWOOD FEDERAL 1-20

SECTION NESE 20 TOWNSHIP 9S RANGE 21E COUNTY UINTAH

DRILLING CONTRACTOR OLSON

RIG # 5

SPUDDED: DATE 12/16/89

TIME 4:00 p.m.

HOW AIR RIG

DRILLING WILL COMMENCE \_\_\_\_\_

REPORTED BY KEN ALLEN

TELEPHONE # \_\_\_\_\_

DATE 12/18/89 SIGNED JRB

**ENRON**  
**Oil & Gas Company**

P.O. Box 1815 Vernal, UT 84078 (801) 789-0790

**RECEIVED**  
JAN 04 1990

January 2, 1990

DIVISION OF  
OIL, GAS & MINING

State of Utah  
Division of Oil, Gas & Mining  
3 Triad Center, Suite 350  
355 West North Temple  
Salt Lake City, Utah 84180-1203

Attn: Lisha Romero

RE: Wild Horse Federal 2-26  
Lease: U3405  
Sec. 26, T10S, R19E  
Uintah County, Utah

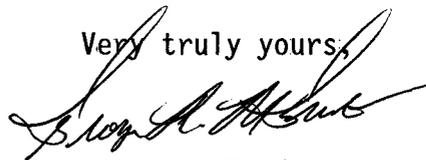
Cottonwood Federal 1-20  
Lease: U0575  
Sec. 20, T9S, R21E  
Uintah County, Utah

Dear Ms. Romero:

Attached is the Entity Action Form on the referenced wells.

If you have any questions, please contact this office.

Very truly yours,



George McBride  
Production Foreman

GM/lw  
0853mm

cc: File

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	11051	43-047-31882	wild Horse Federal 2-26	NE SW	26	10S	19E	Uintah	11-24-89? 11-28-89	1/2/90
WELL 1 COMMENTS: Federal-Lease Proposed Zone - Wasatch Field - Natural Buttes (Separate Tank Battery - Assign new entity 11051 on 1-8-90.) Unit - N/A JCL											
<del>A</del> B	99999 02900	11052	43-047-31875	Cottonwood Federal 1-20	NE SE	20	9S	21E	Uintah	12-16-89? 12/15/89	1/2/90
WELL 2 RECEIVED JAN 04 1990 FEDERAL LEASING DIVISION OF GAS & MINING Federal-Lease Proposed Zone - GRV Field - Natural Buttes (Entity 02900 is for prod. from the WSTC-MUPD formation within the NBK. This well will complete GRV under Cause No. 197-1. I spoke with Linda Wall and Unit - N/A plans to do so are still the same. Therefore this well needs a new entity. Assigned 11052 on 1-10-90. JCL											
WELL 3 COMMENTS: GAS & MINING											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

## ACTION CODES (See instructions on back of form)

- 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)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

Linda S. Wall  
Signature  
Sr. Admin. Clerk 1-2-90  
Title Date  
Phone No. (801) 789-0790

**ENRON**  
**Oil & Gas Company**

P.O. Box 1815 Vernal, UT 84078 (801) 789-0729

January 10, 1990

**RECEIVED**  
JAN 17 1990

DIVISION OF  
OIL, GAS & MINING

State of Utah  
Division of Oil, Gas & Mining  
3 Triad Center, Suite 350  
355 West North Temple  
Salt Lake City, Utah 84180-1203

Attn: Lisha Romero

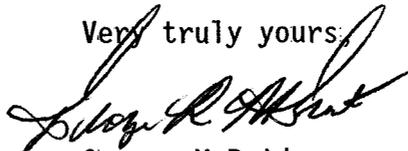
RE: Cottonwood Federal 1-20  
Lease: U0575  
Sec. 20, T9S, R21E  
Uintah County, Utah

Dear Ms. Romero:

Attached is the Water Encountered During Drilling on the referenced well.

If you have any questions, please contact this office.

Very truly yours,



George McBride  
Production Foreman

GM/lw  
0859mm

cc: File

**RECEIVED**  
JAN 17 1990

REPORT OF WATER ENCOUNTERED DURING DRILLING - FORM 7

1. Well name and number: Cottonwood Federal 1-20  
API number: 43-047-31875
2. Well location: QQ NE/SE section 20 township 9S range 21E county Uintah
3. Well operator: Enron Oil & Gas Co.  
Address: 211 south 1000 East P.O. Box 1815 phone: 801-789-0790  
Vernal, Utah 84078
4. Drilling contractor: Olsen Drilling Co.  
Address: 999 18th St. Suite 3300 phone: 303-292-9930  
Denver, Colorado 80202

5. Water encountered (continue on reverse side if necessary)

Depth		Volume (flow rate or head)	Quality (fresh or salty)
from	to		
1,700		1"	

OIL AND GAS	
DRN	RIF
JRB	Q-GM ✓
DTS	SLS
1-LCB ✓	
B-TAS ✓	
MICROFILM	
1-	FILE

6. Formation tops: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

If an analysis has been made of the water encountered, please attach a copy of the report to this form.

I certify that this report is true and complete to the best of my knowledge.

Name Lynola S. Waff Signature Lynola S. Waff  
 Title D. Admin. Clerk Date 1-10-90

Comments:

# ENRON Oil & Gas Company

P.O. Box 1815 Vernal, UT 84078 (801) 789-0790

March 27, 1990

**RECEIVED**  
MAR 29 1990

DIVISION OF  
OIL, GAS & MINING

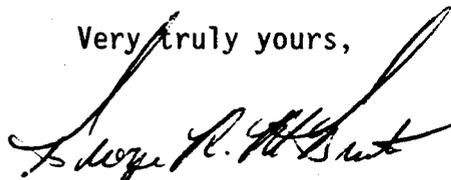
Bureau of Land Management  
Vernal District  
170 South 500 East  
Vernal, Utah 84078

RE: Cottonwood Federal 1-20  
Sec. 20, T9S, R21E  
Uintah County, Utah  
Lease No. U-575

Dear Sirs:

Attached please find a Well Completion Report and Log for the subject well.  
If you have any further questions, please contact me at this office.

Very truly yours,



George McBride  
Production Foreman

GM/lw  
0881mm/

cc: State Division of Oil, Gas & Mining  
Bureau of Indian Affairs-Energy & Minerals  
File

OIL AND GAS	
DRN	DF
JRB	CLH
DTS	SLS
1-TAS	
2-	MICROFILM ✓
3-	FILE

**UNITED STATES DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

SUBMIT IN DUPLICATE\*

(See other instructions reverse side)

Form approved. Budget Bureau No. 42-R355.5.

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG\***

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR.

2. NAME OF OPERATOR  
Enron Oil & Gas Co.

3. ADDRESS OF OPERATOR  
P. O. Box 1815, Vernal, Utah 84078

**RECORDED**  
MAR 29 1990

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface 2,021' FSL & 696' FEL NE/SE  
At top prod. interval reported below  
At total depth \_\_\_\_\_

14. PERMIT NO. 43-047-31875 DATE ISSUED 10-16-89

15. DATE SPUDDED 12-14-89 16. DATE T.D. REACHED 01-04-90 17. DATE COMPL. (Ready to prod.) 02-10-90 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 4,830" GR 19. ELEV. CASINGHEAD 1.5'

20. TOTAL DEPTH, MD & TVD 4,850' 21. PLUG, BACK T.D., MD & TVD 4,679' 22. IF MULTIPLE COMPL., HOW MANY\* No 23. INTERVALS DRILLED BY → All

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
M4 4,526-4,533' Greenriver  
M4 4,541-4,545' Greenriver  
M8 4,619-4,635' Greenriver

26. TYPE ELECTRIC AND OTHER LOGS RUN  
FDC/CNL/DLL-MSFL/GR & Caliper Logs

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24# K55 STC	217'	12"	250 sxs Class G 2% CaCl <sub>2</sub>	None
4 1/2"	11.6# J55LTC	4,862'	7 7/8"	24 sxs Light Cmt & 515 sxs Poz Mix w/2% Gels & 10% Salt	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
None				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	4,653.34'	N/A

31. PERFORATION RECORD (Interval, size and number)

M4	4,526-4,533	28 Holes
M4	4,541-4,545'	16 Holes
M8	4,619-4,635'	64 Holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4,526-4,533'	933 Bbls Gels 3% KCL Wtr w/6,000#
4,541-4,545'	100 Mesh 76,000# 20/40
4,619-4,635'	980 Bbls Gels 3% KCL Wtr w/6,000#
	100 Mesh Sand 76,780 20/40 Sand

33. PRODUCTION

DATE FIRST PRODUCTION WO Well Hookup PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing WELL STATUS (Producing or shut-in) SI

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
02/11/90	24 Hrs	20/64	→	Trace	2.373	Mist	Unable to Calc.

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORE.)
980	1,180	→	Trace	2.373	Mist	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented TEST WITNESSED BY Dave Neher

35. LIST OF ATTACHMENTS  
CBL

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED [Signature] TITLE Production Foreman DATE 3/27/90

\*(See Instructions and Spaces for Additional Data on Reverse Side)

**ENRON**  
**Oil & Gas Company**

P.O. Box 1815 Vernal, UT 84078 (801) 789-0790

**RECEIVED**

APR 05 1990

DIVISION OF  
OIL, GAS & MINING

April 4, 1990

Bureau of Land Management  
Vernal District  
170 South 500 East  
Vernal, Utah 84078

Attn: Greg Darlington

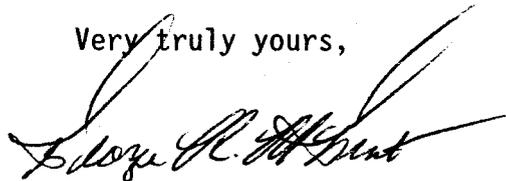
RE: Cottonwood Federal 1-20  
Sec. 20, T9S, R21E  
Uintah County, Utah  
Lease No. U-0575  
Ute Tribal Surface

Dear Mr. Darlington:

Attached please find a Sundry Notice stating CIG intent to make a hot tap for production from Enron Oil & Gas Co. Cottonwood Federal 1-20 well.

If you need further information, please call me at this office.

Very truly yours,



George McBride  
Production Foreman

GM/lw  
/0883mm/

cc: State Division of Oil, Gas & Mining  
Ute Indian Tribe - Energy & Minerals  
File

DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

THIS FORM IS TO BE USED FOR REPORTS ON THE OPERATION OF ANY WELL OR FOR THE SUBMITTAL OF AN APPLICATION FOR PERMITS TO DRILL OR RE-DRILL A WELL.

U-0575

Ute Tribal Surface

UNIT ACQUISITION NAME

NAME OF LEASE NAME

Cottonwood Federal

WELL NO.  
1-20

WATER AND FUEL OR WILDCAT

Greenriver

SEC. T. R. N. OF BLM ANT. SURVEY OF AREA

Sec. 20, T9S, R21E

COUNTY OR PARISH

Uintah

STATE

Utah

RECEIVED  
APR 05 1990

NAME OF OPERATOR  
Enron Oil & Gas Co.

ADDRESS OF OPERATOR  
P.O. Box 1815, Vernal, Utah 84078

DIVISION OF  
OIL, GAS & MINING

LOCATION OF WELL (Report location clearly and it accordance with any State or Federal regulations. See also space 37 below.)  
At surface:

2,021' FSL & 697' FEL NE/SE

PHONE NO.

43-047-31875

ELEVATION (Show whether DT, ST, OR SL)

4,830' GR

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FILL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETS

SHOOT OF ACIDIZ

ABANDON\*

REPAIR WELL

CHANGE PLAN:

(Other) Hot Tap

XX

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OF ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(Note: Report results of multiple completion or Well Completion or Recompletion Report and Log form.)

37. DESCRIBE PROPOSED OR COMPLETE OPERATION: (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

CIG intends to make a hot tap with 15' of 4" line from the edge of Cottonwood Federal 1-20 and connecting with CIG line F-175 coming from CIG Well #70 to connect Enron Oil & Gas Co. Cottonwood Federal 1-20 Well. The 60' line from hot tap to meter runs east and is a 4" line with a .125 wall thickness, Grade X42, 2,330# working pressure. Meter tube is .237 wall thickness, Grade B, 1,433# working pressure. Production from this ell will be metered on location.

OIL AND GAS	
DRN	RJF
1-JEB	GLH
DTS	SLS
2-TAS	
3-	MICROFILM
4-	FILE

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

SIGNED Linda L. Wade

TITLE Asst. Admin. Clerk

DATE 4-4-90

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

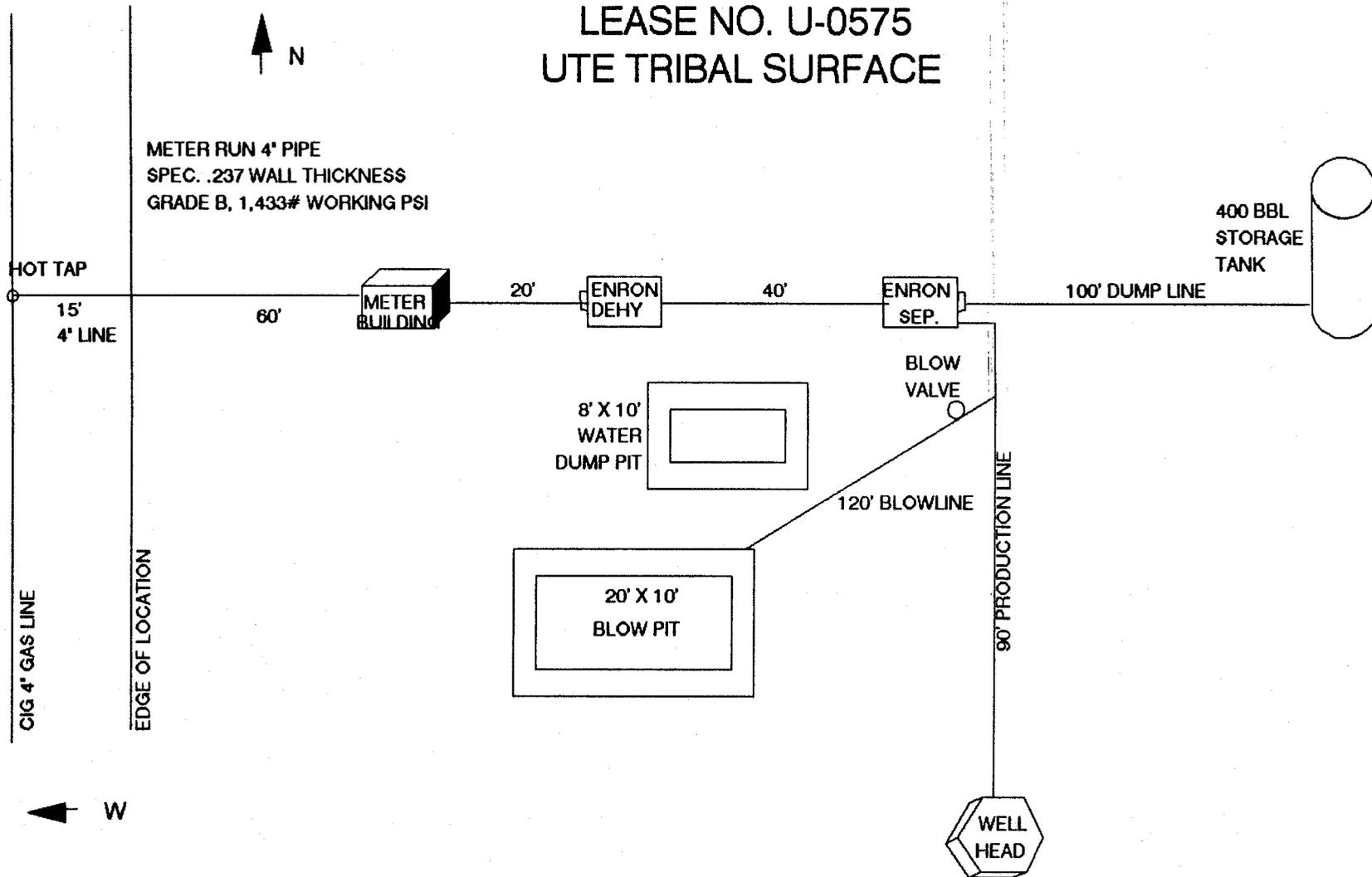
DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

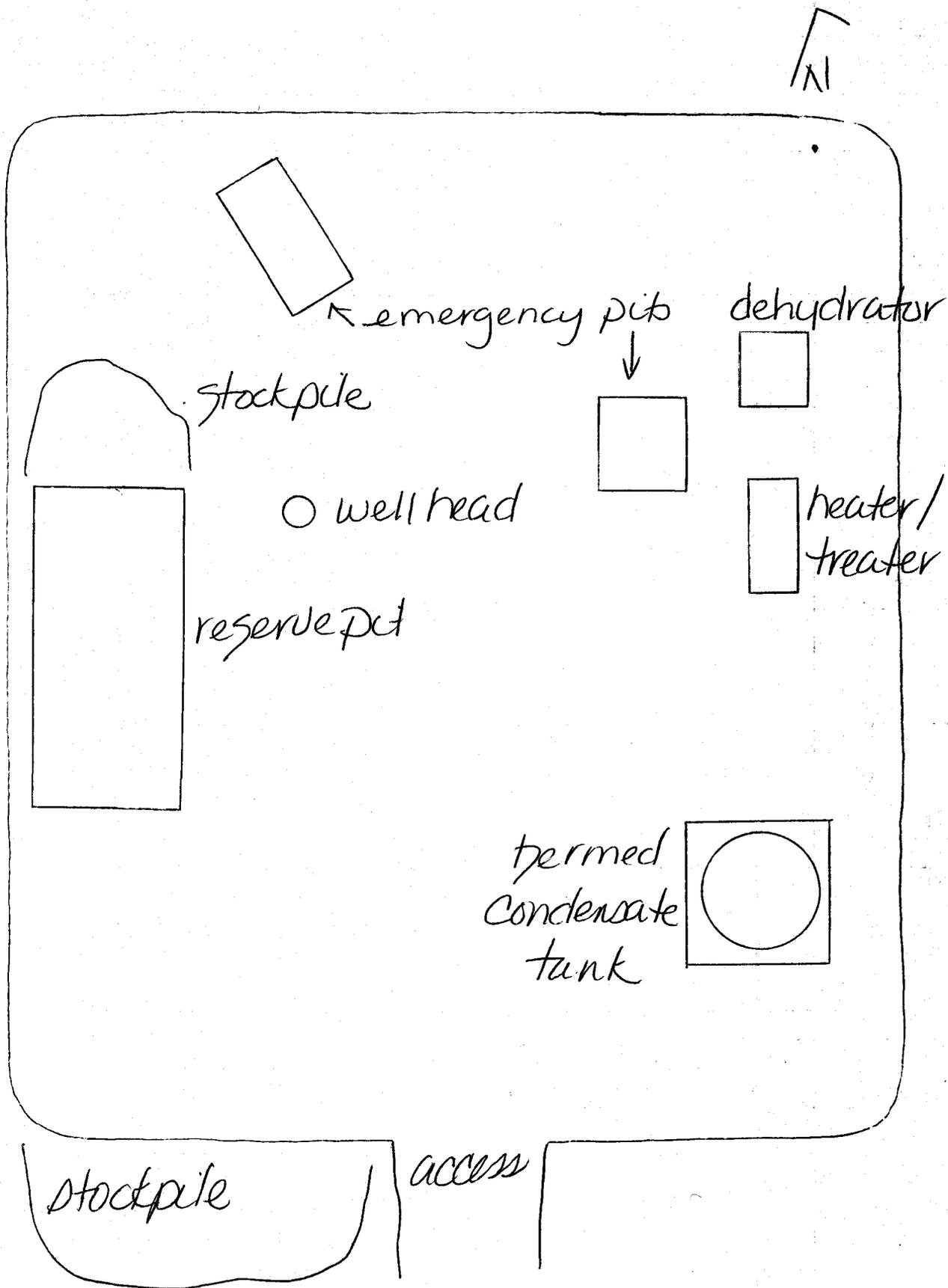
\*See Instructions on Reverse Side

Spw

COTTONWOOD FED 1-20  
SEC. 20, T9S, R21E  
UINTAH COUNTY, UTAH  
LEASE NO. U-0575  
UTE TRIBAL SURFACE



Cottonwood Rd 120 Sec 20, T9S, R21E Kuby 5/2/90



**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

**RECEIVED**  
MAY 25 1990  
DIVISION OF OIL, GAS & MINING

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. U-0575
2. NAME OF OPERATOR ENRON OIL & GAS COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME UTE TRIBAL SURFACE
3. ADDRESS OF OPERATOR P O BOX 1815 VERNAL, UTAH		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  2021' FSL & 696' FEL NE/SE		8. FARM OR LEASE NAME COTTONWOOD FEDERAL
14. PERMIT NO. 43 047 31875		9. WELL NO. 1-20
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4830'		10. FIELD AND POOL, OR WILDCAT NATURAL BUTTES-GREEN R.
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SEC 20, T9S, R21E
		12. COUNTY OR PARISH UINTAH
		13. STATE UTAH

**16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

TURNED TO PRODUCTION 5-22-90

OIL AND GAS	
DPN	INF
JFB	GLH
DTS	SLS
1-TAS	<input checked="" type="checkbox"/>
2- MICROFILM	<input checked="" type="checkbox"/>
3- FILE	<input checked="" type="checkbox"/>

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

SIGNED [Signature] TITLE PRODUCTION FOREMAN DATE 5-23-90

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

**ENRON**  
**OIL & GAS COMPANY**

P.O. BOX 1815, VERNAL, UTAH 84078 (801)789-0790

July 15 1993

Bureau of Land Management  
Vernal District  
170 South 500 East  
Vernal, Utah 84078

RE: COTTONWOOD FEDERAL 1-20  
SEC. 20, T9S, R21E  
UINTAH COUNTY, UTAH  
LEASE NO. U-0575

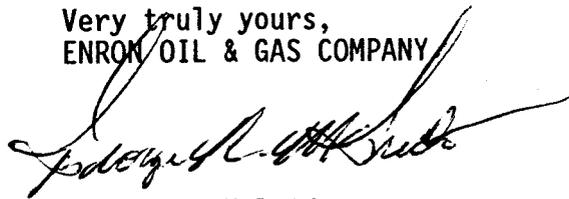
Attn: Ed Forsman:

Dear Mr. Forsman:

Please find attached 3 (three) Sundry Notices requesting approval for water disposal method.

If you have any questions or need additional information, please contact this office.

Very truly yours,  
ENRON OIL & GAS COMPANY



George R. McBride  
Sr. Production Foreman

cc: ~~Division of Oil Gas & Mining~~  
Curt Parsons  
Doug Weaver/Toni Miller  
Diane Cross - Houston EB-2370  
File

/lwSundry

**RECEIVED**

JUL 20 1993

DIVISION OF  
OIL GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. U-0575
2. Name of Operator ENRON OIL & GAS COMPANY	6. If Indian, Allottee or Tribe Name UTE TRIBAL SURFACE
3. Address and Telephone No. P.O. BOX 1815, VERNAL, UTAH 84078 (801) 789-0790	7. If Unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2021' FSL & 69 <sup>6</sup> ' FEL NE/SE SEC. 20, T9S, R21E	8. Well Name and No. COTTONWOOD FED.1-20
	9. API Well No. 43-047-31875
	10. Field and Pool, or Exploratory Area GTEENRIVER
	11. County or Parish, State UINTAH, UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Enron Oil & Gas Company requests approval to dispose of produced water from the subject well as follows:

1. Store in above ground tank.
2. Transport by truck to Enron Oil & Gas Company's Natural Buttes 21-20 SWD Plant.

Accepted by the State  
of Utah Division of  
Oil, Gas and Mining

Date: 7-21-93

By: [Signature]

**RECEIVED**

JUL 20 1993

DIVISION OF  
OIL GAS & MINING

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

Signed [Signature] Title Sr. Admin. Clerk Date 7/15/93

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any: Federal Approval of this Action is Necessary

Title 18 U.S.C. Section 1001, makes 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.

\*See instruction on Reverse Side.



EOG Resources, Inc.  
1200 Smith Street  
Houston, TX 77002

P.O. Box 4362  
Houston, TX 77210-4362

October 6, 1999

**VIA OVERNIGHT MAIL**

Ms. Kristen Risbeck  
State of Utah  
Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
P. O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: Blanket Oil & Gas Well Drilling Bond No. JT 1230  
Merger and Name Change from Enron Oil & Gas Company  
Into EOG Resources, Inc.

Dear Ms. Risbeck:

On August 30, 1999, EOG Resources, Inc. merged with and into Enron Oil & Gas Company and Enron Oil & Gas Company changed its name to EOG Resources, Inc. Enclosed are an originally certified copy of the Certificate of Ownership and Merger evidencing this merger and name change, a Rider for Bond No. JT 1230 changing the principal to EOG Resources, Inc. and a list of wells operated by Enron Oil & Gas Company in Utah. Please update your records accordingly.

If you have any questions or need any additional information, please contact me at (713) 853-5195.

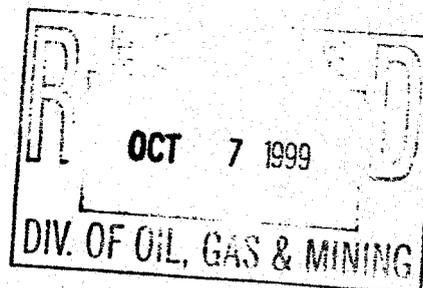
Sincerely,

A handwritten signature in cursive script that reads "Debbie Hamre".

Debbie Hamre

Enclosures

cc: Theresa Wysocki  
Toni Miller, Denver Division  
Bill Aven

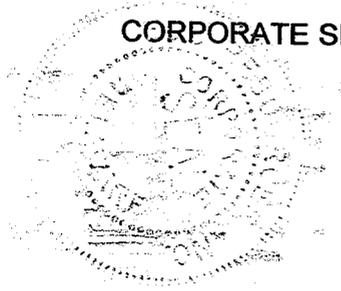


**ENRON OIL & GAS COMPANY**  
**CERTIFICATE OF NAME CHANGE**  
**TO EOG RESOURCES, INC.**

I, the undersigned, Vickie L. Graham, Assistant Secretary of EOG Resources, Inc., a corporation duly organized and existing under and by virtue of the laws of the State of Delaware and formerly known as Enron Oil & Gas Company, hereby certify that:

- (1) as Assistant Secretary I am authorized to execute this certificate on behalf of the Corporation;
- (2) attached is a true and correct copy of a Certificate of Ownership and Merger merging EOG Resources, Inc. into Enron Oil & Gas Company, and changing the corporate name of Enron Oil & Gas Company to EOG Resources, Inc., including a copy of the certificate of the Secretary of State of Delaware, the state of incorporation; said merger and name change being effective as of August 30, 1999.

IN WITNESS WHEREOF, I have hereunto set my hand as Assistant Secretary and affixed the corporate seal of said Corporation this 4th day of October, 1999.

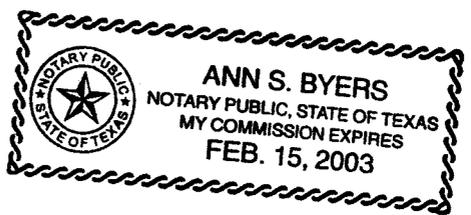


CORPORATE SEAL

Vickie L. Graham  
Vickie L. Graham  
Assistant Secretary

STATE OF TEXAS  
COUNTY OF HARRIS

This instrument was acknowledged before me this 4th day of October, 1999 by Vickie L. Graham, as Assistant Secretary of EOG Resources, Inc., a Delaware corporation, on behalf of said corporation. Witness my hand and official seal.



Ann S. Byers  
Notary Public in and for  
The State of Texas

**CERTIFICATE OF OWNERSHIP  
AND MERGER**

**MERGING**

**EOG RESOURCES, INC.**  
a Delaware corporation

**INTO**

**ENRON OIL & GAS COMPANY**  
a Delaware corporation

(Pursuant to Section 253 of the General Corporation  
Law of the State of Delaware)

Enron Oil & Gas Company, a corporation duly organized and existing under and by virtue of the General Corporation Law of the State of Delaware, does hereby certify:

**FIRST:** That Enron Oil & Gas Company (the "Company") and EOG Resources, Inc. ("EOG") are corporations duly organized and existing under and by virtue of the General Corporation Law of the State of Delaware.

**SECOND:** That the Company owns all of the issued and outstanding shares of the capital stock of EOG.

**THIRD:** That the board of directors of the Company adopted the following resolutions by unanimous written consent dated August 25, 1999, and that such resolutions have not been rescinded and are in full force and effect on the date hereof:

"WHEREAS, EOG Resources, Inc., a Delaware corporation ("EOG"), is a wholly owned subsidiary of the Company;

WHEREAS, the board of directors of the Company deems it advisable and in the best interest of the Company to merge EOG with and into the Company, with the Company being the surviving corporation;

NOW, THEREFORE, BE IT RESOLVED, that EOG be merged with and into the Company pursuant to Section 253 of the General Corporation Law of the State of Delaware, and that the Company succeed to and possess all the rights and assets of EOG and be subject to all of the liabilities and obligations of EOG;

RESOLVED, that the Company change its corporate name by changing Article First of the Certificate of Incorporation of the Company to read in its entirety as follows:

"First: The name of the Corporation is EOG Resources, Inc."

RESOLVED, that each share of common stock, \$1.00 par value per share, of EOG issued and outstanding immediately prior to the effective date of the merger shall, upon the effective date and by virtue of the merger, be canceled without payment therefor;

RESOLVED, that the merger shall become effective on the date the Company files a Certificate of Ownership and Merger with respect to such merger with the Secretary of State of the State of Delaware;

RESOLVED, that the appropriate officers of the Company are hereby authorized and empowered to file the necessary documents with the Secretary of State of the State of Delaware, to incur the necessary expenses therefor and to take, or cause to be taken, all such further action and to execute and deliver or cause to be executed and delivered, in the name of and on behalf of the Company, all such further instruments and documents as any such officer may deem to be necessary or advisable in order to effect the purpose and intent of the foregoing resolutions and to be in the best interests of the Company (as conclusively evidenced by the taking of such action or the execution and delivery of such instruments and documents, as the case may be, by or under the direction of any such officer);

RESOLVED, that the prior actions of the officers and directors of the Company in undertaking to carry out the transactions contemplated by the foregoing resolutions be, and the same hereby are, in all respects, approved, adopted, ratified and confirmed."

IT WITNESS WHEREOF, the Company has caused this Certificate to be signed by its duly authorized officer this 26th day of August, 1999.

ENRON OIL & GAS COMPANY

By:

  
Walter C. Wilson  
Senior Vice President and  
Chief Financial Officer

*BKS*



EOG Resources, Inc.  
1200 Smith Street  
Houston, TX 77002

P.O. Box 4362  
Houston, TX 77210-4362

**SENT VIA FAX**  
**(801)359-3940**

March 10, 2000

Ms. Kristen Risbeck  
State of Utah  
Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
P. O. Box 145801  
Salt Lake City, UT 84114-5801

RE: Merger and Name Change from Enron Oil & Gas Company  
Into EOG Resources, Inc.

Dear Ms. Risbeck:

On August 30, 1999, EOG Resources, Inc. merged with and into Enron Oil & Gas Company and Enron Oil & Gas Company changed its name to EOG Resources, Inc. An originally certified copy of the Certificate of Ownership and Merger evidencing this merger and name change was previously sent to you. As we discussed today, there are two wells, the CWU 590-16F, NWNW-16-T9S-R22E, 430473337200 and the CWU 596-9F, SWSE-9-T9S-R22E, 430473337400 that should have been included on the original well list we mailed October 6, 1999, but they were inadvertently left off.

Please change your records to reflect these two additional wells as operated by EOG Resources, Inc. If you have any questions or need any additional information, please contact me at the (713) 651-6714.

Sincerely,

A handwritten signature in cursive script that reads "Debbie Hamre".  
Debbie Hamre

EOG RESOURCES, INC.  
UTAH OPERATED WELLS

WELL NAME	EOG PROPERTY #	API #
BRENNAN BOTTOMS 1-15	U-14639	430473101800
COTTONTAIL FED 1-18	U-0575	000721000001 430473189900
COTTONWOOD FED 1-20	U-0575	003570000001 430473187500
CWU 1-04	U-15726	003665000001 430473066000
CWU 1-05 WASATCH	U-15727	003666000001 430473066100
CWU 5-22	U-0284A	003729000001 430471505100
CWU 7-10	U-0281	003742000001 430471505300
CWU 11-15	U-0283A	003667000001 430471505600
CWU 13-13	U-0282	003669000001 430471505800
CWU 15-11	U-0281	003671000001 430471506000
CWU 16-14	U-0282	003672000001 430471506100
CWU 17-25	U-0285A	003673000001 430471506200
CWU 20-28	U-0285A	003678000001 430471506500
CWU 21-23	U-0282	003680000001 430471506600
CWU 22-09	U-0283A	003683000001 430471506700
CWU 24-02	ML-3077	003701000001 430471506800
CWU 30-22	U-0284A	003709000001 430473022900
CWU 31-14	U-0282	003710000001 430473023200
CWU 32-21	U-0284A	003711000001 430473023300
CWU 33-16	ML-3078	003712000001 430473023400
CWU 34-28	SL-D65296	003713000001 430473023500
CWU 35-15	U-0283A	003714000001 430473023600
CWU 36-26	U-0285A	003715000001 430473026300
CWU 37-11	U-0281	003716000001 430473026400
CWU 38-09	U-0283A	003717000001 430473026500
CWU 39-16	ML-3078	003718000001 430473026800
CWU 40-27	U-0344A	003719000001 430473028700
CWU 42-13	U-0282	003721000001 430473028900
CWU 43-11	U-0281	003722000001 430473029000
CWU 44-10	U-0281	003723000001 430473029100
CWU 45-25	U-010956	003724000001 430473061200
CWU 47-30	U-0337	003726000001 430473061400
CWU 48-19	U-0337	003727000001 430473061500
CWU 49-25	U-0285A	003728000001 430473070200
CWU 52-33	U-0336	003732000001 430473071200
CWU 58-19	U-0337	003738000001 430473082700
CWU 217-23	U-0282	003681000001 430473115700
CWU 220-10	U-0281	003684000001 430473115400
CWU 224-10	U-0281	003685000001 430473121800
CWU 225-02	ML-3077	003686000001 430473130500
CWU 226-03	U-0281	003687000001 430473131200
CWU 227-03	U-0281	003688000001 430473131300
CWU 228-09	FEE	003689000001 430473131700
CWU 229-12	U-0282	003690000001 430473131500
CWU 231-14	U-0282	003692000001 430473131800

EOG RESOURCES, INC.  
UTAH OPERATED WELLS

WELL NAME	EOG PROPERTY #	API #
CWU 349-27N	U-0285A	02203600001
CWU 350-14N	U-0282	02203700001
CWU 351-15N	U-0283A	02203800001
CWU 352-16	ML-31603	03256900001
CWU 353-15F	U-0283A	02592300001
CWU 355-13N	U-0282	02592600001
CWU 358-23F	U-0282	02592400001
CWU 359-27N	U-0285A	02413500001
CWU 360-26N	U-0285A	02413600001
CWU 364-15	U-0283A	02413800001
CWU 401-28F	U-0285A	03139800001
CWU 403-3N	U-0281	02512400001
CWU 404-10N	U-0281	02512500001
CWU 407-16N	ML-3078	03257000001
CWU 408-09N	FEE	03043900001
CWU 409-11N	U-0281	02592700001
CWU 410-02N	ML-3077	03038900001
CWU 411-10N	U-0281	02512600001
CWU 416-24N	SL-071756	02512700001
CWU 429-22N	U-0284A	02512900001
CWU 430-22F	U-0284A	02513000001
CWU 431-23F	U-0282	02513100001
CWU 432-12N	U-0281	02512300001
CWU 433-28N	U-0285A	00259290001
CWU 434-27N	*43.047.32789 U-0285A	02593000001
CWU 435-24N	U-0282	02593100001
CWU 439-11N	U-0281	02593200001
CWU 440-14F	U-0282	02592500001
CWU 441-11F	U-0281	03257100001
CWU 442-11F	U-0281	03057700001
CWU 443-11F	U-0281	02762700001
CWU 448-10F	U-0281	03044000001
CWU 449-10F	U-0281	03066600001
CWU 451-14F	U-0282	02762800001
CWU 454-14F	U-0282	03044100001
CWU 457-15N	U-0283A	03066700001
CWU 458-15F	U-0283A	03066800001
CWU 460-16F	ML-3078	03257200001
CWU 462-24F	SL-071756	03225500001
CWU 463-23F	U-0282	02762900001
CWU 464-23F	U-0282	03257300001
CWU 465-23	U-0282	03066900001
CWU 467-22F	U-0284A	03039000001
CWU 469-22E	U-0284A	02763000001
CWU 471-21F	U-0284A	03139900001

LA in ERROR

EOG RESOURCES, INC.  
UTAH OPERATED WELLS

WELL NAME	EOG PROPERTY #	API #	
CWU 474-21F	U-0284A	032574000001	430473333100
CWU 477-27F	U-0285A	030391000001	430473289700
CWU 479-26F	U-0285A	027631000001	430473282600
CWU 480-26F	U-0285A	030388000001	430473289600
CWU 482-09F	U-0283A	030392000001	430473289400
CWU 483-15F	U-0283A	030665000001	430473295300
CWU 485-26F	U-0285A	030670000001	430473292700
CWU 486-2F	ML-3077	030576000001	430473294900
CWU 487-09F	U-0283A	030617000001	430473295000
CWU 488-13F	U-0282	030570000001	430473292200
CWU 490-16N	ML-3078	030615000001	430473295500
CWU 491-16N	ML-3078	030618000001	430473295600
CWU 492-16F	ML-3078	030616000001	430473295700
CWU 494-22F	U-0284A	030444000001	430473291500
CWU 495-25N	U-0285A	030673000001	430473304700
CWU 496-21E	U-0284A	030614000001	430473295800
CWU 497-24F	U-0282	030674000001	430473304600
CWU 498-25E	U-010956	030575000001	430473304800
CWU 499-24F	U-0282	030672000001	430473292600
CWU 505-28F	U-023998	031400000001	430473318000
CWU 506-27F	U-0285A	031401000001	430473283300
CWU 507-26F	U-010956	032444000001	430473333200
CWU 511-24F	U-0282	031379000001	430473305900
CWU 514-23F	U-0282	031380000001	430473305800
CWU 516-21F	U-0284A	031382000001	430473313700
CWU 517-16F	ML-3078	032257000001	430473317100
CWU 518-16F	ML-3078	031402000001	430473313800
CWU 520-15F	U-0283A	031381000001	430473312700
CWU 521-15F	U-0283A	032258000001	430473329600
CWU 522-15F	U-0283A	032242000001	430473323600
CWU 523-14F	U-0282	032259000001	430473329700
CWU 524-13F	U-0282	031403000001	430473311500
CWU 531-11F	U-0281	032260000001	430473329800
CWU 532-10F	U-0281	031407000001	430473326500
CWU 534-9F	U-0283A	031408000001	430473327400
CWU 535-9F	FEE	032220000001	430473327500
CWU 536-09F	FEE	031409000001	430473314300
CWU 538-3N	U-0281	031410000001	430473312500
CWU 542-3	U-0281	032221000001	430473321300
CWU 543-3	U-0281	032222000001	430473327100
CWU 544-02F	ML-3077	032576000001	430473335100
CWU 547-2F	ML-3077	031412000001	430473313600
CWU 549-19F	U-0337	031383000001	430473306800
CWU 550-30N	U-0337	031384000001	430473311600
CWU 555-10F	U-0281	031385000001	430473323700

EOG RESOURCES, INC.  
UTAH OPERATED WELLS

WELL NAME	EOG PROPERTY #	API #
CWU 556-11F	U-0281	03141400001
CWU 558-14F	U-0282	03138600001
CWU 559-14F	U-0282	03138700001
CWU 560-14F	U-0282	03141600001
CWU 561-14F	U-0282	03141700001
CWU 563-27F	U-0285A	03141900001
CWU 564-16F	ML-3078	03138800001
CWU 565-28F	U-0285A	03124500001
CWU 566-22F	U-0284A	03142000001
CWU 570-02F	ML-3077	03174600001
CWU 571-9F	U-0283A	03174700001
CWU 572-10F	U-0281	03174800001
CWU 573-11F	U-0281	03174900001
CWU 574-12N	U-0281	03175000001
CWU 575-13F	U-0282	03175100001
CWU 576-14F	U-0283	03175200001
CWU 577-22F	U-0284A	03175300001
CWU 578-22F	U-0284A	03175400001
CWU 579-23F	U-0282	03175500001
CWU 580-23F	U-0282	03175600001
CWU 582-1N	U-01458	03175800001
CWU 584-13F	U-0282	03226100001
CWU 585-2	ML-3077	03222300001
CWU 586-4	U-0283A	03222400001
CWU 589-28	U-0285A	03226200001
CWU 591-23F	U-0282	03257700001
CWU 592-11F	U-0281	03257800001
CWU 593-11F	U-0281	03257900001
DC 1-11 GR	U-27042	00374700001
DC 2-10 GR	U-27042	00375800001
DC 4-17 GR	U-38400	00378000001
DC 60-29	U-24230	00380400001
DC 61-29	U-24230	00380500001
* HARLEY GOVT #1	<i>Refer to 3/5/1/92</i>	00985600001
HOME FEDERAL #1-34	U-3405	00650300001
HOME FEDERAL #1-34 WAS	—	00650300002
LTL PAP 1-26 B5	U-43156	01043900001
LTL PAP 1-26 RED	—	01043900002
N CHAPITA 2-5	file	03187300001
NATURAL COTTON 11-20	U-0575	02386800001
NATURAL COTTON 12-17	U-0575	02520800001
NATURAL COTTON 13-20	U-0575	02386300001
NATURAL COTTON 14-08	U-0575	02386700001
NATURAL COTTON 23-18	U-0581	02386600001
NATURAL COTTON 23-28	U-0576	02386400001

EOG RESOURCES, INC.  
UTAH OPERATED WELLS

WELL NAME	EOG PROPERTY #	API #
NATURAL COTTON 34-21	023865000001	430473242600
NATURAL COTTON 43-16	025207000001	430473046800
NBU 1-07B	004478000001	430473026100
NBU 2-15B	004489000001	430473026200
NBU 3-02B	004524000001	430473026700
NBU 4-35B	004538000001	430473027300
NBU 5-36B	004550000001	430473027200
NBU 7-09B	004573000001	430473027800
NBU 8-20B	004576000001	430473027500
NBU 10-29B	004479000001	430473027400
NBU 11-14B	004480000002	430473029200
NBU 11-14B WAS		430473029200
NBU 12-23B M4	004481000002	430473030800
NBU 13-08B	004482000001	430473029400
NBU 14-30	004483000001	430473029500
NBU 15-29B	004484000001	430473029600
NBU 16-06B	004485000001	430473031600
NBU 17-18B	004486000001	430473031700
NBU 19-21B	004488000001	430473032800
NBU 20-01B	004490000001	430473031900
NBU 21-20B WDW	004497000001	430473035900
NBU 25-20B	004516000001	430473036300
NBU 26-13B	004517000001	430473036400
NBU 27-01B	004518000002	430473038100
NBU 28-04B	004521000001	430473036700
NBU 29-05B	004523000001	430473036800
NBU 30-18	004526000001	430473038000
NBU 31-12B BC	004528000002	430473038500
NBU 31-12B ISL	004528000001	430473038500
NBU 33-17B	004531000001	430473039600
NBU 34-17B	000350000001	430473040400
NBU 35-08B	004533000001	430473039700
NBU 36-07B	004534000001	430473039900
NBU 37-13B	004535000001	430473040000
NBU 38-22B	004536000001	430473040100
NBU 48-29B	004547000001	430473054200
NBU 48-29B	004547000002	430473054200
NBU 49-12B	004548000001	430473047000
NBU 52-01B	004553000001	430473047300
NBU 53-03B	004555000001	430473047400
NBU 54-02B	004556000001	430473047500
NBU 55-10B	004557000001	430473046500
NBU 57-12B	004559000001	430473046300
NBU 58-23B	004560000001	430473046200
NBU 62-35B	004565000001	430473047700

EOG RESOURCES, INC.  
UTAH OPERATED WELLS

WELL NAME	EOG PROPERTY #	API #
NBU 63-12B	004566000001	430473046600
NBU 70-34B	004574000001	430473057700
NBU 71-26B	004575000001	430473057800
NBU 202-03	004493000001	430473115000
NBU 205-08	004494000001	430473123800
NBU 206-09	004495000001	430473116500
NBU 207-04	004496000001	430473117700
NBU 210-24	004498000001	430473115300
NBU 211-20	004499000001	430473115600
NBU 212-19	004500000001	430473126700
NBU 213-36	004501000001	430473126800
NBU 217-02	004505000001	430473128200
NBU 218-17	004506000001	430473131000
NBU 219-24	004507000001	430473130800
NBU 301-24E	020165000001	430473213100
NBU 302-9E	019750000001	430473201000
NBU 304-18E	020166000001	430473213000
NBU 305-07E	020167000001	430473213500
NBU 306-18E	021473000001	430473228200
NBU 307-6E	019751000001	430473201400
NBU 308-20E	021203000001	430473220200
NBU 309-20E	021295000001	430473228300
NBU 311-23E	021205000001	430473220300
NBU 313-29E	021832000001	430473237800
NBU 314-03E	021404000001	430473227100
NBU 316-17E	021935000001	430473238100
NBU 317-12E	021938000001	430473236200
NBU 318-36E	021204000001	430473220400
NBU 321-10E	021943000001	430473237900
NBU 322-15E	031312000001	430473313900
NBU 325-8E	021940000001	430473237600
NBU 328-13E	021944000001	430473238600
NBU 329-29E	021532000001	430473222900
NBU 331-35E	020174000001	430473214700
NBU 332-08E	020175000001	430473214800
NBU 333-2E	021405000001	430473251800
NBU 335-23E	021406000001	430473226500
NBU 336-24E	021407000001	430473226400
NBU 339-19E	021533000001	430473228100
NBU 340-20E	021408000001	430474232700
NBU 341-29E	022179000001	430473305500
NBU 342-35E	021206000001	430473221200
NBU 343-36E	021207000001	430473220500
NBU 349-07E	021534000001	430473232600
NBU 352-10E	021937000001	430473251900

EOG RESOURCES, INC.  
UTAH OPERATED WELLS

WELL NAME	EOG PROPERTY #	API #
NBU 356-29E	021834000001	430473238300
NBU 358-1E	021942000001	430473238800
NBU 360-13E	021945000001	430473238700
NBU 382-18E	031002000001	430473306400
NBU 386-24E	031005000001	430473305600
NBU 388-19E	031134000001	430473305700
NBU 389-29E	031344000001	430473304900
NBU 390-4E	031316000001	430473283500
NBU 391-05E	031007000001	430473298800
NBU 393-13E	031008000001	430473307100
NBU 394-13E	031009000001	430473307200
NBU 400-11E	025576000001	430473254400
NBU 431-09E	031135000001	430473306900
NBU 481-03E	031136000001	430473306300
NBU 483-19E	031137000001	430473306500
NBU 489-07E	031329000001	4304733/21
NBU 490-30E	<i>Ad. U-0581</i> 031330000001	430473313500
NBU 497-1E	031337000001	430473312300
NBU 506-23E	031342000001	430473314000
NBU 508-8E	031300000001	430473312400
NBU STATE 1-32G	<i>ML-22261</i> 004470000001	430473031500
NBU STATE 2-36G	004471000001	430473051500
NDC 69-29 ORI	<i>U-24230</i> 010915000001	430473158000
NDK STORAGE	024739000001	
NDU 1-28	<i>U-0516</i> 004581000001	430473126900
OSCU II 1-34	<i>U-49523</i> 019777000001	430473203900
OSCU II 2-27 (DEV)	<i>U-49518</i> 001727000001	430473189800
OSCU II FED #1	<i>U-49518</i> 011041000001	430473172200
STG 1-32	<i>ML-3085</i> 005915000001	430471507100
STG 2-28	<i>U-0803</i> 005928000001	430471507200
STG 6-20	<i>Indian</i> 005936000001	430471507500
STG 11-22	<i>U-025900</i> 005919000001	430472019300
STG 14-34	<i>U-9613</i> 005922000001	430473059400
STG 15-27	<i>U-0803</i> 005923000001	430473060400
STG 18-17	<i>Free</i> 005926000001	430473061100
STG 19-33	<i>U-9613</i> 005927000001	430473065700
STG 21-08	<i>U-0283</i> 005930000001	430473065900
STG 22-17	<i>Indian</i> 005931000001	430473129900
STG 33-17N	<i>Indian</i> 024128000001	430473244100
STG 41-20	<i>U-019302A</i> 021175000001	430473228000
STG 44-8N	<i>U-0283</i> 025122000001	430473252000
STG 48-17F	<i>Indian</i> 031389000001	430473272800
STG 50-20F	<i>U-019302</i> 031390000001	430473310400
STG 51-20F	<i>Indian</i> 031391000001	430473312000
STG 52-08N	<i>U-0283</i> 031745000001	430473283400

EOG RESOURCES, INC.  
 UTAH OPERATED WELLS

WELL NAME		EOG PROPERTY #	API #
STG 53-08N	<i>U-0283</i>	032264000001	430473268200
STG 56-20F	<i>Indian</i>	032265000001	430473337000
STG 57-08N	<i>U-0283</i>	032266000001	430473337100
WILD HORSE FED 2-26	<i>U-3405</i>	008266000001	430473188200
WILD HORSE FED 2-35	<i>U-3405</i>	019139000001	430473190100
WILD HORSE FED 3-26	<i>U-43156</i>	021869000001	430473237700
WILD HORSE FED 3-35	<i>U-3405</i>	021871000001	430473238900



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155

In Reply Refer To:  
3100  
SL-065342 et al  
(UT-932)

OCT 18 1999

### NOTICE

EOG Resources, Inc.  
Attn: Debbie Hamre  
P.O. Box 4362  
Houston, TX 77210-4362

:  
:  
:  
:  
:

Oil and Gas Leases

### Merger Recognized Name Change Recognized

Acceptable evidence has been received in this office concerning the merger of EOG Resources, Inc. with and into Enron Oil & Gas Company with Enron Oil & Gas Company subsequently changing its name to EOG Resources, Inc.

For our purposes, the merger and name change are recognized effective September 3, 1999, the date the Secretary of State of the State of Delaware recognized the merger and name change.

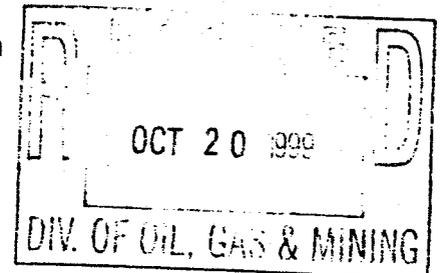
The oil and gas lease files identified on the enclosed exhibit have been noted as to the merger/name change. The exhibit is the list supplied by EOG Resources, Inc. We have not adjudicated the case files to determine if the entity affected by the merger/name change holds an interest in the leases identified, nor have we attempted to identify leases where the entity is the operator on the ground maintaining no vested record title or operating rights interest. We are notifying the Minerals Management Service and all applicable BLM offices of the merger/name change by a copy of this notice. If additional documentation for a change of operator is required by our Field Offices, you will be contacted by them.

Due to the name change, the name of the principal/obligor on the bond is required to be changed from Enron Oil & Gas Company to EOG Resources, Inc. on Nationwide Surety Bond No. JP 0923 (BLM Bond No. NM 2308). You may accomplish this name change either by consent of the surety on the original bond or by a rider to the original bond. Otherwise, a replacement bond with the new name may be furnished to the New Mexico State Office of the Bureau of Land Management.

*Robert Lopez*

Robert Lopez  
Chief, Branch of  
Minerals Adjudication

Enclosure:  
Exhibit of Leases





**State of Utah**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor  
Kathleen Clarke  
Executive Director  
Lowell P. Braxton  
Division Director

1594 West North Temple, Suite 1210  
PO Box 145801  
Salt Lake City, Utah 84114-5801  
801-538-5340  
801-359-3940 (Fax)  
801-538-7223 (TDD)

February 1, 2000

Enron Oil & Gas Company  
P.O. Box 250  
Big Piney, Wyoming 83113

Re: Notification of Sale or Transfer of Fee Lease Interest

The Division has received notification of a merger from Enron Oil & Gas Company to EOG Resources Inc. for the following well(s) which are located on a fee lease:

<u>Well Name</u>	<u>Sec.-T.-R.</u>	<u>API Number</u>
Stagecoach 18-17	17-09S-22E	43-047-30611
CWU 228-09	09-09S-22E	43-047-31317
CWU 337-09	09-09S-22E	43-047-32414
CWU 408-9N	09-09S-22E	43-047-33043
CWU 536-9F	09-09S-22E	43-047-33143
North Chapita 2-5	05-09S-22E	43-047-33211
CWU 535-9F	09-09S-22E	43-047-33275

Utah Administrative Rule R649-2-10 states; the owner of a lease shall provide notification to any person with an interest in such lease, when all or part of that interest in the lease is sold or transferred.

This letter is written to advise Enron Oil & Gas Company of its responsibility to notify all individuals with an interest in this lease (royalty interest and working interest) of the change of operator. Please provide written documentation of this notification to:

Utah Royalty Owners Association  
Box 1292  
Roosevelt, Utah 84066

Page 2  
Enron Oil & Gas Company  
Notification of Sale  
February 1, 2000

Your assistance in this matter is appreciated.

Sincerely,

*Kristen D. Risbeck*

Kristen D. Risbeck

cc: EOG Resources Inc.  
Utah Royalty Owners Association, Martin Brotherson  
John R. Baza, Associate Director  
Operator File(s)

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801

**MONTHLY OIL AND GAS PRODUCTION REPORT**

OPERATOR NAME AND ADDRESS

PATTY E ROBINSON  
 ENRON OIL & GAS CO  
 PO BOX 250  
 BIG PINEY, WY 83113

UTAH ACCOUNT NUMBER:   N0401  

REPORT PERIOD (MONTH/YEAR):   12 / 1999  

AMENDED REPORT  (Highlight Changes)

WELL NAME			Producing Zone	Well Status	Well Type	Days Oper	Production Volumes		
API Number	Entity	Location					OIL (BBL)	GAS (MCF)	WATER (BBL)
CWU 58-19									
4304730827	10740	09S 23E 19	WSTC		GW		U-0337		Upprv 10.20.99
NBU 37-13B									
4304730400	10853	09S 20E 13	GRRV		GW		U-0579		11
NBU 38-22B									
4304730401	10854	09S 20E 22	GRRV		GW		U-0577A		11
NBU 27-1B									
4304730381	11049	10S 20E 01	GRRV		GW		U-02270A		11
CWU 1-5									
4304730661	11050	09S 22E 05	GRRV		GW		U-15727		11
WILD HORSE FEDERAL 2-26									
4304731882	11051	10S 19E 26	WSTC		GW		U-3405		11
COTTONWOOD FED. 1-20									
4304731875	11052	09S 21E 20	GRRV		GW		U-0575		11
COTTONTAIL FEDERAL 1-18									
4304731899	11125	09S 21E 18	GRRV		GW		U-0575		11
NBU 11-14B									
4304730292	11150	09S 20E 14	GRRV		OW		U-0577A		11
NBU 12-23B									
4304730308	11151	09S 20E 23	GRRV		GW		U-0577A		11
WILD HORSE FEDERAL 2-35									
4304731901	11254	10S 19E 35	WSTC		GW		U-3405		11
WILD HORSE FEDERAL 3-26									
4304732377	11439	10S 19E 26	WSTC		GW		U-43156		11
WILD HORSE FEDERAL 3-35									
4304732389	11444	10S 19E 35	WSTC		GW		U-3405		11

TOTALS

--	--	--

COMMENTS :

I hereby certify that this report is true and complete to the best of my knowledge.

Date: \_\_\_\_\_

Name and Signature: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

**OPERATOR CHANGE WORKSHEET**

**ROUTING:**

1-KDR	6-KAS <input checked="" type="checkbox"/>
2-GLH	7-SJ <input checked="" type="checkbox"/>
3-JRB	8-FILE
4-CDW	
5-KDR	

Attach all documentation received by the Division regarding this change.

Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (Well Sold)       Designation of Agent  
 Designation of Operator       Operator Name Change Only (MERGER)

The operator of the well(s) listed below has changed, effective: 8-30-99

**TO:(New Operator)** EOG RESOURCES INC.  
 Address: P.O. BOX 4362  
HOUSTON, TX 77210-4362  
DEBBIE HAMRE  
 Phone: (713)651-6714  
 Account No. N9550

**FROM:(Old Operator)** ENRON OIL & GAS COMPANY  
 Address: P.O. BOX 4362  
HOUSTON, TX 77210-4362  
DEBBIE HAMRE  
 Phone: (713)651-6714  
 Account No. N0401

ALL(S): Attach additional page(s) if needed.

Name: <b>**SEE ATTACHED**</b>	API: <u>43-042-31825</u>	Entity: <u>10052 S 20</u>	T: <u>075 R 212</u>	Lease:
Name:	API:	Entity: S	T R	Lease:
Name:	API:	Entity: S	T R	Lease:
Name:	API:	Entity: S	T R	Lease:
Name:	API:	Entity: S	T R	Lease:
Name:	API:	Entity: S	T R	Lease:

**OPERATOR CHANGE DOCUMENTATION**

- VDR 1. (R649-8-10) Sundry or other legal documentation has been received from the **FORMER** operator (attach to this form) on 10.7.99.
- VDR 2. (R649-8-10) Sundry or other legal documentation has been received from the **NEW** operator on 10.7.99.
- VDR 3. The new company has been looked up in the **Department of Commerce, Division of Corporations Database** if the new operator above is not currently operating any wells in Utah. Is the operator registered with the State?  Yes /  No If yes, the company file number is \_\_\_\_\_. If no, Division letter was mailed to the new operator on \_\_\_\_\_.
- VDR 4. **Federal and Indian Lease Wells.** The BLM and/or the BIA has approved the operator change for all wells listed above involving Federal and/or Indian leases. BIM-Rec'd 10.20.99  
BIA-Rec'd 3.10.99
- N/A 5. **Federal and Indian Units.** The BLM and/or the BIA has approved the operator change for the \_\_\_\_\_ unit and all wells listed above involving unit operations. (Name change only - BIM approved)
- N/A 6. **Federal and Indian Communitization Agreements ("CA").** The BLM and/or the BIA has approved the operator change for CA (Federal, Indian), CA No. \_\_\_\_\_, and all wells listed above involved in the CA.

\* For wells located on a CA (state or fee) send a copy of the sundry notice of all wells involved to Teresa Thompson at the S.L. Office before approval.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: March 31, 2007

**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.*

5. Lease Serial No.  
**U-0575**

6. If Indian, Allottee or Tribe Name  
**UTE INDIAN TRIBE**

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

8. Well Name and No.  
**COTTONWOOD FEDERAL 1-20**

9. API Well No.  
**43-047-31875**

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

11. County or Parish, State  
**UINTAH COUNTY, UT**

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

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
**EOG RESOURCES, INC.**

3a. Address  
**P.O. BOX 250 Big Piney WY, 83113**

3b. Phone No. (include area code)  
**307-276-3331**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**NESE 2021 FSL 696 FEL  
SECTION 20, T9S, R21E 40.01956 LAT 109.568 LON**

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

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

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate 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.)

**EOG Resources, Inc. requests a variance to the requirement for a vent line valve (denardo) on the oil tanks at the Cottonwood Federal 1-20 well. The well produces primarily Green River black wax crude. The tank is required to be heated for sales thus the light ends are cooked off and are released every time the thief hatch is opened to gauge the tank. Therefore the vent line valve does not have any effective purpose and has the potential to create a safety hazard in the winter due liquid condensation freezing at the valve.**

**EOG Resources, Inc. operates under Nationwide Bond #2308**

COPY SENT TO OPERATOR  
Date: 11-3-05  
Initials: CND

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

Name (Printed/Typed) **Kaylene R. Gardner** Title **Regulatory Assistant**

Signature *[Signature]* Date **10/14/2005**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by \_\_\_\_\_ Title **Accepted by the Utah Division of Oil, Gas and Mining** Federal Approval Of This Action Is Necessary

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

Title 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.

Date: **10/20/05**  
By: *[Signature]* **RECEIVED**

(Instructions on page 2)

**OCT 1 / 2005**

**OPERATOR CHANGE WORKSHEET**

**X Change of Operator (Well Sold)**

Operator Name Change

Designation of Agent/Operator

Merger

**ROUTING**

- |        |
|--------|
| 1. DJJ |
| 2. CDW |

The operator of the well(s) listed below has changed, effective: **1/1/2010**

<b>FROM:</b> (Old Operator): N9550-EOG Resources 1060 E Hwy 40 Vernal, UT 84078 Phone: 1-(435) 781-9111	<b>TO:</b> ( New Operator): N2995-Kerr-McGee Oil & Gas Onshore., LP 1368 South 1200 East Vernal, UT 84078 Phone: 1-(435) 781-7024
---	---

**CA No. Unit:**

WELL NAME(S)	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
SEE ATTACHED SHEET								

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 12/24/2009
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 12/24/2009
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 3/7/2006
- Is the new operator registered in the State of Utah: YES Business Number: 1355743-0181
- (R649-9-2) Waste Management Plan has been received on: IN PLACE
- Inspections of LA PA state/fee well sites complete on: n/a
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM not yet BIA n/a
- Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: not yet
- Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 1/31/2010
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 1/31/2010
- Bond information entered in RBDMS on: 1/31/2010
- Fee/State wells attached to bond in RBDMS on: 1/31/2010
- Injection Projects to new operator in RBDMS on: n/a

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: WYB000291
- Indian well(s) covered by Bond Number: n/a
- (R649-3-1) The **NEW** operator of any state or fee well(s) listed covered by Bond Number 22013542
- The **FORMER** operator has requested a release of liability from their bond on: n/a

**COMMENTS:**

**EOG transferred all their leases and permits in NBU and the near vicinity to Kerr-McGee effective January 1, 2010**

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.*

5. Lease Serial No. Multiple Leases
6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE** - Other instructions on page 2.

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		7. If Unit of CA/Agreement, Name and/or No.
2. Name of Operator EOG Resources, Inc		8. Well Name and No. Multiple Wells <b>13</b>
3a. Address 1060 EAST HIGHWAY 40, VERNAL, UT 84078	3b. Phone No. (include area code) 435-781-9145	9. API Well No. See Attached
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) See Attached		10. Field and Pool or Exploratory Area Natural Buttes
		11. Country or Parish, State Uintah, Utah

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

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

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate 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.)

EOG Resources, Inc. has assigned all of its right, title and interest in the wells described in the attached list ("the Subject Wells") to Kerr-McGee Oil & Gas Onshore LP and will relinquish and transfer operatorship of all of the Subject Wells to Kerr-McGee Oil & Gas Onshore LP on January 1, 2010.

As of January 1, 2010, Kerr-McGee Oil & Gas Onshore LP will be considered to be the operator of each of the Subject Wells and will be responsible under the terms and conditions of the applicable lease for the operations conducted upon the leased lands. Bond coverage is provided under Kerr-McGee Oil & Gas Onshore LP's Nationwide BLM Bond No. WYB-000291.

Kerr-McGee Oil & Gas Onshore LP  
1099 18th Street, Suite 1800  
Denver, CO 80202-1918

APPROVED 11/31/2010

By: Michael A. Nixon Date: 12/17/2009  
Michael A. Nixon  
Agent and Attorney-in-Fact

Earlene Russell  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

14. I hereby certify that the foregoing is true and correct.	
Name (Printed/Typed) J. Michael Schween	Title Agent and Attorney-in-Fact
Signature	Date 12/17/2009

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

RECEIVED

Approved by	Title	Date
	Office	DEC 24 2009
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.		

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.

Lease #	API #	Well Name	Footages	LEGAL DESCRIPTION
UTU0575B	4304734583	NATURAL COTTON 14-07	1070' FSL 1689' FWL	T09S-R21E-07-SWSW (Lot 4)
UTU0576	4304734584	NATURAL COTTON 32-21	1738' FNL 1750' FEL	T09S-R21E-21-SWNE
UTU0575	4304734640	NATURAL COTTON 44-17	850' FSL 750' FEL	T09S-R21E-17-SESE

RECEIVED  
DEC 24 2009  
DIV. OF OIL, GAS & MINING

Lease #	API #	Well Name	Footages	LEGAL DESCRIPTION
UTU0575	4304731875	COTTONWOOD FEDERAL 1-20	2021' FSL 696' FEL	T09S-R21E-20-NESE
UTU0575	4304732429	NATURAL COTTON 13-20	1388' FSL 1071' FWL	T09S-R21E-20-NWSW
UTU0581	4304732427	NATURAL COTTON 23-18	1318' FSL 2818' FWL	T09S-R21E-18-SESW
UTU0576	4304732425	NATURAL COTTON 23-28	1432' FSL 1587' FWL	T09S-R21E-28-NESW
UTU0576	4304732426	NATURAL COTTON 34-21	1437' FSL 1624' FEL	T09S-R21E-21-NWSE
UTU0576	4304734420	NATURAL COTTON 52-28	1402' FNL 2004' FEL	T09S-R21E-28-SWNE
UTU0576	4304734586	NATURAL COTTON 53-28	1858' FNL 810' FWL	T09S-R21E-28-SWNW
UTU0576	4304731269	NATURAL DUCK 1-28GR	699' FEL 2035' FSL	T09S-R21E-28-NESE
UTU0577A	4304730308	NBU 12-23B	1500' FNL 660' FWL	T09S-R20E-23-SWNW
UTU0577A	4304730401	NBU 38-22B	638' FSL 1307' FEL	T09S-R20E-22-SESE

RECEIVED

DEC 24 2009

DIV. OF OIL, GAS & MINING



# United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
Green River District-Vernal Field Office  
170 South 500 East  
Vernal, UT 84078  
(435) 781-4400 Fax: (435) 781-4410  
<http://www.blm.gov/ut/st/en/fo/vernal.html>



IN REPLY REFER TO:  
3162.3  
UTG011

April 12, 2010

Kathy Schneebeck Dulnoan  
Kerr McGee Oil & Gas Onshore LP  
PO Box 173779  
Denver, CO 80217-3779

43047-31875  
Re: Change of Operator  
Well No. Cottonwood Federal 1-20  
NESE, Sec. 20, T9S, R21E  
Uintah County, Utah  
Lease No. UTU-0575

Dear Ms. Schneebeck Dulnoan:

This correspondence is in regard to the self-certification statement submitted requesting a change of operator for the referenced well. After a review by this office, the change of operator request is approved. Effective January 1, 2010, Kerr-McGee Oil & Gas Onshore LP is responsible for all operations performed on the referenced well. All liability will now fall under your bond, BLM Bond No. WYB000291, for all operations conducted on the referenced well on the leased land.

If you have any questions regarding this matter, please contact Cindy Severson of this office at (435) 781-4455.

Sincerely,

Ryan Angus  
Petroleum Engineer

Enclosure

cc: UDOGM  
EOG Resources, Inc.  
BIA

RECEIVED

APR 27 2010

DIV. OF OIL, GAS & MINING

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.*

5. Lease Serial No.  
Multiple Leases  
6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE** - Other instructions on page 2.

1. Type of Well  
 Oil Well  Gas Well  Other

7. If Unit of CA/Agreement, Name and/or No.  
8. Well Name and No.  
Multiple Wells  
9. API Well No.  
See Attached

2. Name of Operator  
EOG Resources, Inc

3a. Address  
1060 EAST HIGHWAY 40, VERNAL, UT 84078  
3b. Phone No. (include area code)  
435-781-9145

10. Field and Pool or Exploratory Area  
Natural Buttes

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
See Attached

11. Country or Parish, State  
Utah, Utah

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

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

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat 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 recompleat 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.)

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As of January 1, 2010, Kerr-McGee Oil & Gas Onshore LP will be considered to be the operator of each of the Subject Wells and will be responsible under the terms and conditions of the applicable lease for the operations conducted upon the leased lands. Bond coverage is provided under Kerr-McGee Oil & Gas Onshore LP's Nationwide BLM Bond No. WYB-000291.

Kerr-McGee Oil & Gas Onshore LP  
1099 18th Street, Suite 1800  
Denver, CO 80202-1918

RECEIVED

DEC 22 2009

By: Michael A. Nixson Date: 12/17/2009  
Michael A. Nixson  
Agent and Attorney-in-Fact

BLM VERNAL FIELD OFFICE

14. I hereby certify that the foregoing is true and correct.  
Name (Printed/Typed) J. Michael Schween  
Title Agent and Attorney-in-Fact  
Signature \_\_\_\_\_ Date 12/17/2009

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by [Signature] Title **Petroleum Engineer** Date **APR 12 2010**  
Office **VERNAL FIELD OFFICE**

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

Title 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.

Lease #	API #	Well Name	Footages	LEGAL DESCRIPTION
UTU0575	4304731875	COTTONWOOD FEDERAL 1-20	2021' FSL 696' FEL	T09S-R21E-20-NESE
UTU0575	4304732429	NATURAL COTTON 13-20	1388' FSL 1071' FWL	T09S-R21E-20-NWSW
UTU0581	4304732427	NATURAL COTTON 23-18	1318' FSL 2818' FWL	T09S-R21E-18-SESW
UTU0576	4304732425	NATURAL COTTON 23-28	1432' FSL 1587' FWL	T09S-R21E-28-NESW
UTU0576	4304732426	NATURAL COTTON 34-21	1437' FSL 1624' FEL	T09S-R21E-21-NWSE
UTU0576	4304734420	NATURAL COTTON 52-28	1402' FNL 2004' FEL	T09S-R21E-28-SWNE
UTU0576	4304734586	NATURAL COTTON 53-28	1858' FNL 810' FWL	T09S-R21E-28-SWNW
UTU0576	4304731269	NATURAL DUCK 1-28GR	699' FEL 2035' FSL	T09S-R21E-28-NESE
UTU0577A	4304730308	NBU 12-23B	1500' FNL 660' FWL	T09S-R20E-23-SWNW
UTU0577A	4304730401	NBU 38-22B *	638' FSL 1307' FEL	T09S-R20E-22-SESE

\* This well is located in CA 66152, successor of operator will be handled at the BUMUT State Office, per Kaylene Gardner on 04/12/2010. cs

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU0575
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> COTTONWOOD FED 1-20
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047318750000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6515 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2021 FSL 0696 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESE Section: 20 Township: 09.0S Range: 21.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 10/26/2011	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input checked="" type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 50px;" type="text"/>

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

The operator requests approval to plug back the existing Green River perforations and recomplete this well in the upper Green River formation, as outlined in the attached procedure. The existing Green River perforations will not be commingled with the new completions at this time. Thank you.

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

Date: 11/21/2011

By: *Derek Quist*

<b>NAME (PLEASE PRINT)</b> Jaime Scharnowske	<b>PHONE NUMBER</b> 720 929-6304	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/26/2011	

# Greater Natural Buttes Unit



## **COTTONWOOD FEDERAL 1-20 RE-COMPLETION PROCEDURE**

**DATE:10/20/2011  
AFE#:  
API#:4304731875**

**COMPLETIONS ENGINEER: JAMES PAGE, Denver, CO  
720 -929-6747 (Office)  
303 – 501-2731 (Cell)**

**SIGNATURE:**

**ENGINEERING MANAGER: JEFF DUFRESNE**

**SIGNATURE:**

**REMEMBER SAFETY FIRST!**

**Name:** COTTONWOOD FEDERAL 1-20**Location:** NE SE Sec 20 T9S R21E**Uintah County, UT****Date:** 10/20/ 2011**LAT:** 40.01956 **LONG:** -109.56803 **COORDINATE:** NAD27**ELEVATIONS:** 4829' GL 4843.5' KB**TOTAL DEPTH:** 4850' **PBTD:** 4816**SURFACE CASING:** 8 5/8", 24# K-55 ST&C @ 221'**PRODUCTION CASING:** 4 1/2", 11.6#, J-55 @ 4850'**TUBULAR PROPERTIES:**

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl/ft)	(gal/ft)
2 7/8" 6.5# J-55 tbg	7,260	7,680	2.347"	0.00579	0.2431
4 1/2" 11.6# J-55	5,350	4,960	3.875"	0.0155	0.6528
2.3/8" tbg. X 4 1/2" 11.6 # csg				.0101	.4227

**TOPS:**

1621' Green River

1713' Birds Nest

2243' Mahogany

CBL indicates good cement below 1550'

**GENERAL:**

- A minimum of **5** 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 HLS Induction-Density-Neutron log dated 1/30/1990
- **2** fracturing stages required for coverage.
- Procedure calls for **3** 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.
- 20/40 mesh Ottawa sand, **Slickwater Frac.**
- Maximum surface pressure **3800** 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.
- **Call flush at 0 PPG @ inline densimeters. Slow to 5 bbl/min over last 10-20 bbls of flush. Flush to top perf.**
- NO TUBING IN HOLE
- Originally completed on 02/10/1990

**Existing Perforations:**

This well was perforated 12/30/2010

Zone	From	To	# of shots
GREENRIVER	4526	4533	28
GREENRIVER	4541	4545	16
GREENRIVER	4619	4635	64

**PROCEDURE:**

1. NU and test BOPs. RIH 3 7/8" mill and clean out to 4635' at a minimum. Circulate hole clean with recycled water. POOH.
2. RIH with CBP and set at 4450'
3. ND BOPs and NU frac valves. Test frac valves and casing to 1000 and 3500 psi for 15 minutes each and to 3800 psi for 30 minutes. As per standard operating procedure install steel blowdown line to reserve pit from 4-1/2" X 8-5/8" 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.
4. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
Green River	4362	4370	4	32
5. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gals of 15% HCL and let soak 5-10 min. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~4362' and trickle 250gal 15%HCL w/ scale inhibitor in flush .
6. Set 8000 psi CBP at ~4,083'. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
Green River	4023	4033	4	40
7. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~4023'. Flush only recycled water.
8. ND Frac Valves, NU and Test BOPs.
9. TIH with 3 7/8" bit, pump off sub, SN and tubing.
10. Drill 2 plugs and clean out to 4490' Shear off bit and land tubing at  $\pm$  **3970'** unless indicated otherwise by the well's behavior. **Existing Green River Perfs will not be commingled with new completion at this time.**
11. Clean out well with foam and/or swabbing unit until steady flow has been established from completion.

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

**For design questions, please call  
James Page, Denver, CO  
720 929 6747 (Office)  
303 501 2731 (Cell)**

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

Name COTTONWOOD FED 1-20  
Perforation and CBP Summary

Stage	Zones	Perforations		SPF	Holes	Fracture Coverage		
		Top, ft	Bottom, ft					
1	GREEN RIVER	4362	4370	4	32	4362	to	4372
	GREEN RIVER							
	GREEN RIVER							
	GREEN RIVER							
	GREEN RIVER							
	# of Perfs/stage				32	CBP DEPTH	4,083	
2	GREEN RIVER	4023	4033	4	40	4020	to	4034
	GREEN RIVER							
	GREEN RIVER							
	GREEN RIVER							
	# of Perfs/stage				40	CBP DEPTH	3,973	
	Totals				72			

Service Company Supplied Chemicals - Job Totals

Friction Reducer	38	gals @	0.5	GPT
Surfactant	75	gals @	1.0	GPT
Clay Stabilizer	75	gals @	1.0	GPT
15% Hcl	500	gals @	250	gal/stg
Iron Control for acid	3	gals @	5.0	GPT of aci
Surfactant for acid	1	gals @	1.0	GPT of aci
Corrosion Inhibitor for acid	1	gals @	2.0	GPT of aci

Party Supplied Chemicals Job Totals - Include Pumping Charge if Applicable

Scale Inhibitor	194	gals pumped per schedule above
Biocide	38	gals @ 0.5 GPT

Fracturing Schedules  
 Name COTTONWOOD FED-1-20  
 Slickwater Frac

Copy to new book  
 Recomplete? Y  
 Pad? n  
 ACTS? n

Swabbing Days 0  
 Production Log 0  
 DFT 0  
 Enter Number of Swabbing days here for re-completes  
 Enter 1 if running a Production Log  
 Enter Number of DFTs

Stage	Zone	Pay		Perts		SPF	Hoses	Rate BPM	Fluid Type	Initial ppq	Final ppq	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.
		Top, ft	Bot, ft	Top, ft	Bot, ft																	
1	GREEN RIVER	4392.0	4372.0	10.00	4392	4370	4	Varied	Pump-in test			Slickwater	4,500	4,500	0	0	0	0.0%	0	0	0	28
	GREEN RIVER			0.00				50	Slickwater Pad	0.25	1.5	Slickwater	15,000	19,500	107	107	15.0%	35.7%	13,125	13,125	14	
	GREEN RIVER			0.00				50	Slickwater Ramp	1.5	3	Slickwater	10,500	30,000	357	464	50.0%	64.3%	23,625	36,750	0	43
	GREEN RIVER			0.00				50	Flush (4-12)			Slickwater	2,948	32,848	250	714	35.0%			36,750	0	0
				0.00					ISDP and 5 min ISDP			Slickwater		32,848	68	782				36,750	0	0
				0.00										32,848	68	782				36,750	0	0
				0.00																36,750	0	0
				0.00																36,750	0	0
				0.00																36,750	0	0
				0.00																36,750	0	0
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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 BBL 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 BBL 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 BBL 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

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-0575
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Gas Well		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>8. WELL NAME and NUMBER:</b> COTTONWOOD FED 1-20
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>9. API NUMBER:</b> 43047318750000
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2021 FSL 0696 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESE Section: 20 Township: 09.0S Range: 21.0E Meridian: S		<b>9. FIELD and POOL or WILDCAT:</b> SOUTHERN BUTTES
		<b>COUNTY:</b> UINTAH
		<b>STATE:</b> UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 3/16/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>

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

THE OPERATOR HAS PERFORMED A RECOMPLETION ON THE SUBJECT WELL. THE NEW PERFORATIONS HAVE NOT BEEN COMMINGLED WITH THE EXISTING PERFORATIONS AT THIS TIME. THE SUBJECT WELL WAS PLACED ON PRODUCTION NEW GREENRIVER PERFORATIONS ONLY ON 03/16/2012 AT 1130 HRS. THE DETAILS OF THE RECOMPLETION AND THE COMMINGLED INITIAL PRODUCTION RATES WILL BE INCLUDED WITH THE WELL COMPLETION REPORT.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
March 20, 2012**

<b>NAME (PLEASE PRINT)</b> Sheila Wopsock	<b>PHONE NUMBER</b> 435 781-7024	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 3/19/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-0575	
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>	
<b>1. TYPE OF WELL</b> Gas Well		<b>7. UNIT or CA AGREEMENT NAME:</b>	
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>8. WELL NAME and NUMBER:</b> COTTONWOOD FED 1-20	
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>9. API NUMBER:</b> 43047318750000	
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2021 FSL 0696 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESE Section: 20 Township: 09.0S Range: 21.0E Meridian: S		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES	
		<b>COUNTY:</b> UINTAH	
		<b>STATE:</b> UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 3/19/2012  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input checked="" type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input style="width: 100px;" type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
<p>ON 03/19/2012 THE OPERATOR HAD SUBMITTED A SUBSEQUENT REPORT FOR PRODUCTION START-UP. THE SUBJECT WELL HAS NOT BEEN PLACED ON PRODUCTION, PLEASE RESCIND THE SUNDRY. THE OPERATOR WILL SUBMIT A PRODUCTION START-UP ON THE SUBJECT WELL WHEN THE WELL PRODUCES.</p>			
<p><b>Accepted by the Utah Division of Oil, Gas and Mining</b> <b>FOR RECORD ONLY</b> May 11, 2012</p>			
<b>NAME (PLEASE PRINT)</b> Sheila Wopsock	<b>PHONE NUMBER</b> 435 781-7024	<b>TITLE</b> Regulatory Analyst	
<b>SIGNATURE</b> N/A		<b>DATE</b> 5/1/2012	

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.  
U 057

6. If Indian, Allottee or Tribe Name  
UTE TRIBE SURFACE

7. Unit or CA Agreement Name and No.

1a. Type of Well  Oil Well  Gas Well  Dry  Other

1b. Type of Completion:  New Well  Work Over  Deepen  Plug Back  Diff. Resrv.,  
Other: RECOMPLETION

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

8. Lease Name and Well No.  
COTTONWOOD FEDERAL #1-20

3. Address PO BOX 173779  
DENVER, CO 80217

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

9. API Well No.  
4304731875

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
At surface NESE 2021 FSL 696 FEL S20,T9S,R21E

10. Field and Pool or Exploratory  
NATURAL BUTTES

11. Sec., T., R., M., on Block and Survey or Area  
SEC 20, T9S, R21E

12. County or Parish  
UINTAH

13. State  
UT

14. Date Spudded  
12/14/1989

15. Date T.D. Reached  
01/04/1990

16. Date Completed 04/12/2012  
 D & A  Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
4830

18. Total Depth: MD 4850  
TVD

19. Plug Back T.D.: MD 4679  
TVD

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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
								1550	

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	4328							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GREEN RIVER	4023	4370	4023-4370	0.36	72	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
4023-4370	PUMP 1837 BBLs SLICK H2O & 81,902 LBS 30/50 OTTAWA SAND 2 STAGES

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
4/12/12	4/12/12	24	→	55	0	0			FLOWING
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
20/64	10	375	→	55	0	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	
			→						

**RECEIVED**  
**AUG 21 2012**

\* (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 (Sold, used for fuel, vented, etc.)

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	1621
				BIRD'S NEST	1713
				MAHOGANY	2243

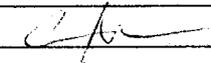
32. Additional remarks (include plugging procedure):

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: Green River 4023-4370; existing perforations: Green River 4526-4635' were abandoned with a CIBP set @ 4465' with 2 sx of cement.

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) CARA MAHLER Title REGULATORY ANALYST  
 Signature  Date 8/16/2012

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

**US ROCKIES REGION  
Operation Summary Report**

Well: COTTONWOOD FED 1-20		Spud Date:	
Project: UTAH-UINTAH	Site: COTTONWOOD FED 1-20	Rig Name No: GWS 1/1	
Event: RECOMPL/RESEREVEADD	Start Date: 12/15/2011	End Date: 3/16/2012	
Active Datum: RKB @4,844.00usft (above Mean Sea Level)	UWI: COTTONWOOD FED 1-20		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
3/12/2012	7:00 - 7:15	0.25	COMP	48		P		HSM, SLIPS, TRIPS & FALLS, RIGGING UP & DOWN RD OFF NBU 921-11N, ROAD RIG, MIRU, CUT BOLTS OFF WH FLANGE INSTAL NEW ONES, SICP 450 PSI. BLOW TBG TO FBT TBG DEAD, BLOW CSG TO FBT OIL STARTED TO COME DEFUSER IN FBT WASHED OUT SWI, PUMP DOWN TBG, 10 BBLs TBG PRESSURED UP TO 1200 PSI, TBG PLUGGED. ND WH, NU BOP, INSTAL PUP JT & TIW VALVE IN HANGER, RU FLOOR & TBG EQUIP, C/O FBT, BLOW CSG TO FBT, WILL PUMP HOT WATER DOWN WELL IN AM, DRAIN & WINTERIZE EQUIP, SWI, SDFN.
	7:15 - 16:30	9.25	COMP	30	A	P		
3/13/2012	7:00 - 7:15	0.25	COMP	48		P		HSM, SLIPS, TRIPS & FALLS, PLUGGED TBG SICP 500 PSI, OPEN WELL TO FBT, MIRU HOT OILER HEAT & PUMP 70 BBLs DOWN CSG, TRIED TO PUMP DOWN TBG PRESSURED UP TO 3,000 PSI, CALLED FOR SLICKLINE & PERF TRUCK, MIRU DELSCO RIH W/ 1 1/2" SINKER BAR TAGGED UP @ 4,630' ASSUME IT HAS STANDING VALVE, POOH RDMO, MIRU J-W WIRELINE PU & RIH W/ PERF GUN & PERF TBG @ 4,592', POOH, RD, RU HOT OILER & PUMP 30 BBLs HOT WATER DOWN TBG, RDMO HOT OILER, POOH W/ TBG L/D 3 JTS 1 W/ PERF HOLE & 2 W/ SCALE ON OD, BROKEN PLUNGER & SPRING IN S/N, RU WIRELINE, PU 3.75" GAUGE RING & RIH TO 4,480', POOH, PU 10K CIBP & RIH, SET @ 4,465', POOH, PU DUMP BAILER W/ 2 SX CMT & RIH, DUMP BAIL 2 SX CMT ON TOP OF CIBP, TOC @ APPROX 4,450' POOH, RD, SWI, SDFN.
	7:15 - 17:00	9.75	COMP	31	I	P		
3/14/2012	7:00 - 7:15	0.25	COMP	48		P		HSM, SLIPS, TRIPS & FALLS, PRESS TESTING ND BOP, NU FV, MIRU B & C QUICK TEST, PRESS TEST 4 1/2" CSG & FRAC VALVE'S, SURFACE CSG VALVE OPEN & LOCKED. FILL SURFACE CSG & 4 1/2" CSG. PRESS TEST CSG & FRAC VALVE'S TO 1,000 PSI. HELD FOR 15 MIN LOST 27 PSI. PRESS TEST CSG & FRAC VALVE'S TO 2,500 PSI. HELD FOR 15 MIN LOST 18 PSI. PRESS TEST CSG & FRAC VALVE'S TO 3,800 PSI. HELD FOR 30 MIN LOST 36 PSI. NO COMMUNICATION WITH SURFACE CSG, RDMO B & C QUICK TEST.
	7:15 - 15:00	7.75	COMP	33	C	P		
3/15/2012	7:00 - 7:15	0.25	COMP	48		P		MIRU JW WIRELINE, PERF STG 1) PU 3 1/8 EXP GUN, 23 GRM, .36 HOLE SIZE, 90 DEG PHASING, RIH PERF AS PER DESIGN, POOH, PREP TO FRAC IN AM, DRAIN & WINTERIZE EQUIP, SWI, SDFN. HSM, SLIPS, TRIPS & FALLS, WIRELINE & FRACING

**US ROCKIES REGION  
Operation Summary Report**

Well: COTTONWOOD FED 1-20		Spud Date:	
Project: UTAH-UINTAH		Site: COTTONWOOD FED 1-20	Rig Name No: GWS 1/1
Event: RECOMPL/RESEREVEADD		Start Date: 12/15/2011	End Date: 3/16/2012
Active Datum: RKB @4,844.00usft (above Mean Sea Level)		UWI: COTTONWOOD FED 1-20	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 12:00	4.75	COMP	36	E	P		<p>MIRU SUPERIOR, PRIME UP PUMPS &amp; PRESS TEST LINES TO 4,800 PSI, LOST 1,400 PSI, NO VISIBLE LEAKS, MANUAL POPOFF SET @ 3,800 PSI, SURFACE CSG VALVE OPEN &amp; LOCKED.</p> <p>RAISED MAX PRESS TO 4,500 PSI, COULD NOT GET UP TO 50 BPM @ 3,800 PSI MAX PRESS, FRAC WATER TEMP 105 DEGREES.</p> <p>FRAC STG 1) WHP 183 PSI, BRK 2,949 PSI @ 1.7 BPM, ISIP 1,726 PSI, FG .83. CALC PERFS OPEN INJ RATE 39.2 BPM @ 3,566 PSI = 19/32 HOLES OPEN 60%. ISIP 1,752 PSI, FG .84, NPI 26 PSI. MP 4,409 PSI, MR 51.2 BPM, AP 3,872 PSI, AR 49.5 BPM, PUMPED 20/40 OTTAWA SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 2) PU 4 1/2" 8K HAL CBP &amp; 3 1/8 EXP GUN, 23 GRM, .36 HOLE SIZE. 90 DEG PHASING, RIH SET 8K CBP @ 4,083' P/U PERF AS PER DESIGN, POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 2) WHP 169 PSI, BRK 3,550 PSI @ 1.9 BPM, ISIP 988 PSI, FG .68. CALC PERFS OPEN INJ RATE 50.9 BPM @ 3,632 PSI = 24/40 HOLES OPEN 61%. ISIP 1,295 PSI, FG .76, NPI 307 PSI. MP 4,113 PSI, MR 51.3 BPM, AP 3,488 PSI, AR 49.8 BPM, PUMPED 20/40 OTTAWA SAND. SWI, X-OVER FOR WL.</p> <p>PU 4 1/2" 8K HAL CBP, RIH &amp; SET TOP KILL @ 3,973', POOH, RD SUPERIOR &amp; JW WIRELINE.</p> <p>TOTAL SAND = 81,902 LBS TOTAL CLFL = 1,837 BBLS BIOCIDE = 25 GALLONS SCALE = 188 GALLONS</p>
	12:00 - 17:00	5.00	COMP	31	I	P		<p>RD FLOOR, ND FV, NU BOP, RU FLOOR &amp; TBG EQUIP, PU 3 7/8" BIT, PUMP OPEN SUB, XN S/N, RIH W/ TBG TO KILL PLUG, L/D 10 JTS, RU P/S, FILL TBG BREAK CIRC, P/T BOP TO 2,500 PSI, TEST GOOD, READY TO D/O PLUGS IN AM, DRAIN &amp; WINTERIZE EQUIP, SWI, SDFN.</p>
3/16/2012	7:00 - 7:15	0.25	COMP	48		P		<p>HSM, SLIPS, TRIPS &amp; FALLS, D/O PLUGS &amp; LANDING TBG</p>

**US ROCKIES REGION**  
**Operation Summary Report**

Well: COTTONWOOD FED 1-20			Spud Date:		
Project: UTAH-UINTAH		Site: COTTONWOOD FED 1-20		Rig Name No: GWS 1/1	
Event: RECOMPL/RESEREVEADD		Start Date: 12/15/2011		End Date: 3/16/2012	
Active Datum: RKB @4,844.00usft (above Mean Sea Level)			UWI: COTTONWOOD FED 1-20		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 16:00	8.75	COMP	44	C	P		<p>D/O PLUGS, SURFACE CSG VALVE OPEN &amp; LOCKED.</p> <p>C/O 10' SAND, TAG 1ST PLUG @ 3,973' DRL PLUG IN 20 MIN. 300 PSI INCREASE RIH, CSG PRESS 20 PSI.</p> <p>C/O 30' SAND, TAG 2ND PLUG @ 4,083' DRL PLUG IN 12 MIN. 200 PSI INCREASE RIH, CSG PRESS 40 PSI.</p> <p>PBTD ((CIBP)) @ 4,465', BTM PERF @ 4,370', RIH TAGGED @ 4,393', C/O FROM 4,393' TO 4,465' ((CIBP)), 95' PAST BTM PERF W/ 136 JTS 2 3/8" J-55 TBG, LD 5 JTS, PU &amp; STRIP IN TBG HANGER &amp; LAND TBG W/ 131 JTS 2 3/8" J-55, EOT 4,327.94'.</p> <p>RD POWER SWIVEL, FLOOR &amp; TBG EQUIP, ND BOPS, NU WH, DROP BALL TO PUMP OPEN SUB, OPENED W/ 1,200 PSI.</p> <p>TURN OVER TO FLOW BACK CREW. RD &amp; ROAD RIG TO NBU 920-20B, SDFWE.</p> <p>KB= 14.5' 7 1/16" CAMERON HANGER= .83' 131 JTS 2 3/8" J-55 = 4,309.48' 1.875" XN S/N= 1.33' PUMP OPEN SUB &amp; BIT= 1.80' EOT @ 4,327.94'</p> <p>TWTR= 1,837 BBLS TWR= 300 BBLS TWLTR= 1,537 BBLS</p>
	11:30 -		COMP	50				<p>WELL TURNED TO SALES AT 1130 HR ON 3/16/2012 - 0 MCFD, 360 BWPD, FCP 80#, FTP 20#, 20/64 CK</p>
3/31/2012	7:00 - 7:15	0.25	MAINT	48		P		SAFETY = JSA.
	7:15 - 10:00	2.75	MAINT	30		P		R/D ON WATTS 923-2D. ROAD RIG TO LOCATION.

**US ROCKIES REGION  
Operation Summary Report**

Well: COTTONWOOD FED 1-20		Spud Date:	
Project: UTAH-UINTAH	Site: COTTONWOOD FED 1-20	Rig Name No: GWS 1/1	
Event: RECOMPL/RESEREVEADD	Start Date: 12/15/2011	End Date: 3/16/2012	
Active Datum: RKB @4,844.00usft (above Mean Sea Level)	UWI: COTTONWOOD FED 1-20		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	10:00 - 18:30	8.50	MAINT	30		P		<p>SICP= 500#. SITP= 0#. BLOW DOWN WELL. MIRU. NDWH. X/O FLANGES FOR 7-1/16 5K WELLHEAD. NUBOP. X/O FROM ROD EQUIP TO TBNG EQUIP. UNLAND WELL. INSTALL STRIPPING RUBBER. MIRU HOT OILER. PUMP DOWN TBNG &amp; ROLL THE HOLE W/ 30 BBLS HOT TMAC. WELL CIRCULATED IMMEDIATELY. RETURNS WERE SOLID OIL. RDMO HOT OILER. RIH W/ 5 JTS 2-3/8" TBNG. T/U @ 4465' ON ISOLATION CIBP. L/D 5 JTS USED TO T/U. POOH W/ 131 JTS 2-3/8" J-55 TBNG. L/D PUMP OPEN BIT SUB &amp; BHA. P/U &amp; RIH W/ THE FOLLOWING:</p> <p>KB=14.5' HANGER= .83' 132JTS 2-3/8" J-55 4.6# TBNG = 4342.42' PSN= 1.10' 1JT 2-3/8" J-55 TBNG = 32.94' (MUD ANCHOR) W/ 1/8" HOLE BELOW UPSET. 2-3/8" J-55 PERF SUB = 4.12' 2-3/8" J-55 PINNED NOTCHED COLLAR = .40'</p> <p>LAND WELL ON HANGER. R/U SWAB EQUIP. BROACH TBNG TO SN. POOH &amp; L/D SWAB EQUIP. NDBOP. NUWH. SWIFN. NOTE: SKINNER DISK WAS RAN ON BTM SIDE OF PSN TO PREVENT TBNG FROM FLOWING ON US. WILL LEAVE IN PLACE &amp; BREAK JUST BEFORE SEATING ROD PUMP. SAFETY= JSA.</p> <p>SICP= 50# SITP=0#. PRIME &amp; STROKE TEST PUMP. P/U &amp; RIH W/ THE FOLLOWING:</p> <p>1- 1-1/4" X 26' SPRAY METAL POLISHED ROD. 1- 7/8" X 4' GRADE D SLK PONY. 172- GRADE D SLK SUCKER RODS W/ SOFT BOX CPLNGS. =4300' 1- 7/8" X 30" STABILIZER PONY W/ 3/4" PINS. 1- 2X1-1/4" X 20' X 23' X 23.50'. THD INSERT PUMP PUMP TYPE= RHAC. W/ CALIFORNIA VALVING. NO SCREEN NIPPLE.</p> <p>MIRU SWEETWATER &amp; PUMP 9BBLS DIESEL DOWN TBNG &amp; DISPLACE W/ TMAC. SPOT ON PERFS SEAT &amp; STROKE TEST PUMP GOOD @ 1000#. R/U HYDRAULIC UNIT. BRING WELL ONLINE. PREP FOR RIG MOVE. TOO WINDY TO R/D. WILL MOVE IN AM.</p>
4/2/2012	7:00 - 7:15	0.25	MAINT	48		P		
	7:15 - 17:30	10.25	MAINT	30		P		

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	COTTONWOOD FED 1-20	Wellbore No.	OH
Well Name	COTTONWOOD FED 1-20	Wellbore Name	COTTONWOOD FED 1-20
Report No.	1	Report Date	12/20/2011
Project	UTAH-UINTAH	Site	COTTONWOOD FED 1-20
Rig Name/No.		Event	RECOMPL/RESEREVEADD
Start Date	12/15/2011	End Date	3/16/2012
Spud Date		Active Datum	RKB @4,844.00usft (above Mean Sea Level)
UWI	COTTONWOOD FED 1-20		

1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly	PRODUCTION CASING	Conveyed Method			

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	4,023.0 (usft)-4,370.0 (usft)	Start Date/Time	
No. of Intervals	2	End Date/Time	
Total Shots	72	Net Perforation Interval	18.00 (usft)
Avg Shot Density	4.00 (shot/ft)	Final Surface Pressure	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
	GREEN RIVER/			4,023.0	4,033.0	4.00								PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
	GREEN RIVER/			4,362.0	4,370.0	4.00								PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> U-0575
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b> MAVERICK
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> COTTONWOOD FED 1-20
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047318750000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6100
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2021 FSL 0696 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESE Section: 20 Township: 09.0S Range: 21.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>5/8/2015</b>  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input checked="" type="checkbox"/> <b>PLUG AND ABANDON</b> <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 50px;" type="text"/>

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

Kerr-McGee Oil & Gas Onshore, LP respectfully requests to plug and abandon the Cottonwood Fed 1-20 well. Please see the attached procedure for details. Thank you.

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

Date: May 12, 2015

By: *Dark Oust*

<b>NAME (PLEASE PRINT)</b> Jennifer Thomas	<b>PHONE NUMBER</b> 720 929-6808	<b>TITLE</b> Regulatory Specialist
<b>SIGNATURE</b> N/A	<b>DATE</b> 5/8/2015	

Cottonwood Fed 1-20  
696' FEL & 2021' FSL  
NESE SEC. 20, T9S, R21E  
Uintah County, UT

KBE: 4844' API NUMBER: 4304731875  
GLE: 4830' LEASE NUMBER: UTU-0575  
TD: 4850' LAT/LONG: 40.01952/-109.56872  
PBDT: 4465'

CASING : 12 1/4" hole  
8 5/8" 24# K-55 @ 221'  
Cmt w/250 sxs Class G w/ 2%CaCl2

7 7/8" hole  
4.5" 11.6# J-55 @ 4850'  
Cmt w/24 sxs light & 515 sxs Poz w/ 2% gels and 10% Salt

PERFORATIONS: Wasatch 4023-4370  
Closed Perfs 4526-4635

TUBING: 2 3/8" 4.7# J-55 tbg at 4391'

Tubular/Borehole	Drift inches	Collapse psi	Burst psi	Capacities		
				Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" 4.7# J-55 tbg.	1.901	8100	7700	0.1624	0.02171	0.00387
4.5" 10.5# J-55	3.833	5720		0.6699	0.0895	0.0159
8.625" 24# J-55	8.097	1370	2950	2.6749	0.3537	0.0636
Annular Capacities						
2.3/8" tbg. X 4 1/2" csg				0.4226	0.0565	0.01
4.5" csg X 8 5/8" 24# csg				1.8487	0.2471	0.044
4.5" csg X 7.7/8 borehole				1.704	0.2278	0.0406
8.5/8" csg X 12 1/4" borehole				3.0874	0.4127	0.0735

#### GEOLOGIC INFORMATION:

Formation	Depth to top, ft.
Uinta	Surface
Green River	1713'
Birds Nest	1892'
Mahogany	2403'
Wasatch	4939'

<http://geology.utah.gov/online/ss/ss-144/ss-144pl1.pdf>

USDW Elevation ~4200' MSL  
USDW Depth ~644' KBL

## Cottonwood Fed 1-20 PLUG & ABANDONMENT PROCEDURE

### GENERAL

- H<sub>2</sub>S MAY BE PRESENT. CHECK FOR H<sub>2</sub>S AND TAKE APPROPRIATE PRECAUTIONS.
- CEMENT QUANTITIES BELOW ASSUME NEAT CLASS G, YIELD 1.145 CUFT./SX. IF A DIFFERENT PRODUCT IS USED, WELLSITE PERSONNEL ARE RESPONSIBLE FOR CORRECTING QUANTITIES TO YIELD THE STATED SLURRY VOLUME. WHEN SQUEEZING, INCLUDE 10% EXCESS PER 1000' OF DEPTH.
- TREATED FRESH WATER WILL BE PLACED BETWEEN ALL PLUGS INSTEAD OF BRINE.
- ALL DISPLACEMENT FLUID SHALL CONTAIN CORROSION INHIBITOR AND BIOCIDES. PREMIX 5 GALLONS PER 100 BBLS FLUID.
- NOTIFY APPROPRIATE AGENCY 24 HOURS BEFORE MOVING ON LOCATION.
- A GPS READING WILL NEED TO BE TAKEN AT THE WELL SITE AND RECORDED IN OPENWELLS. PLEASE TAKE IT TO THE 6TH DECIMAL PLACE.

### PROCEDURE

**Note:** Approx. 407 sx Class "G" cement needed for procedure & (1) 4.5" CIBP

**Note:** No gyro survey on record for this wellbore.

1. A GPS READING WILL NEED TO BE TAKEN AT THE WELL SITE AND RECORDED IN OPENWELLS. PLEASE TAKE IT TO THE 6TH DECIMAL PLACE.
2. MIRU. KILL WELL AS NEEDED. ND WH, NU AND TEST BOPE.
3. POOH W/ TBG & L/D SAME. RU WIRELINE AND MAKE A GAUGE RING RUN TO CHECK FOR FILL. RUN GYRO SURVEY.
4. **PLUG #1, ISOLATE GREEN RIVER PERFORATIONS (4023'-4370')**: RIH W/ 4 ½" CIBP. SET @ ~3960'. RELEASE CIBP, PUH 10', BRK CIRC W/ FRESH WATER. RELEASE CIBP, PUH 10', BRK CIRC W/ TREATED FRESH WATER. DISPLACE A MINIMUM OF 8 SX ON TOP OF PLUG. PUH ABOVE TOC (~3860'). REVERSE CIRCULATE W/ TREATED WATER (~21.6 BBLS).
5. **PLUG #2, PROTECT TOP OF MAHOGANY (2403')**: PUH TO ~2500'. BRK CIRC W/ FRESH WATER. DISPLACE 16 SX AND BALANCE PLUG W/ TOC @ ~2300' (200' COVERAGE). PUH ABOVE TOC. REVERSE CIRCULATE W/ TREATED WATER (~4.9 BBLS).
6. **PLUG #3, PROTECT TOP OF BIRD'S NEST (~1892') & TOP OF GREEN RIVER (1713')**: PUH TO ~1990'. BRK CIRC W/ FRESH WATER. DISPLACE 31 SX AND BALANCE PLUG W/ TOC @ ~1600' (390' COVERAGE). PUH ABOVE TOC. REVERSE CIRCULATE W/ TREATED WATER (~3.2 BBLS).
7. **BACKSIDE SQUEEZE (750')**: POOH AND RIG UP WIRELINE. RIH WITH PERF GUNS FOR 4.5" CASING @ 4 SPF/ 4' GUN. PERFORATE CASING AT ~750' (TOC @ ~1400'). POOH AND CONTROL WELL WITH FRESH WATER AS NECESSARY. RIH WITH 4.5 CIRC AND SET 30' ABOVE PERFORATIONS. POOH AND RIG DOWN WIRELINE. RIH WITH TUBING AND PUMP ~200 SX (750' PLUS 30' FOR RETAINER) UNTIL RETURNS ARE SEEN AT SURFACE.
8. **PLUG #5, PROTECT TOP OF USDW (644')**: STING OUT OF CIRC AND PUMP 14 SX TO 540' (200' COVERAGE). PUH ABOVE TOC. REVERSE CIRCULATE W/ TREATED WATER (~4 BBLS).
9. **PLUG #6, FILL SURFACE HOLE:** POOH. HOOK UP 1" PIPE AND PUMP 24 SX OR SUFFICIENT VOLUME TO FILL 4 ½" CASING F/ 300' TO SURFACE.
10. CUT OFF WELLHEAD AND INSTALL MARKER PER REGULATIONS.
11. RDMO. TURN OVER TO OPERATIONS FOR SURFACE REHAB. SURFACE RECLAMATION TO BE PERFORMED IN ACCORDANCE TO REGULATIONS.

RKS 5/6/2015



APC 206 2/01

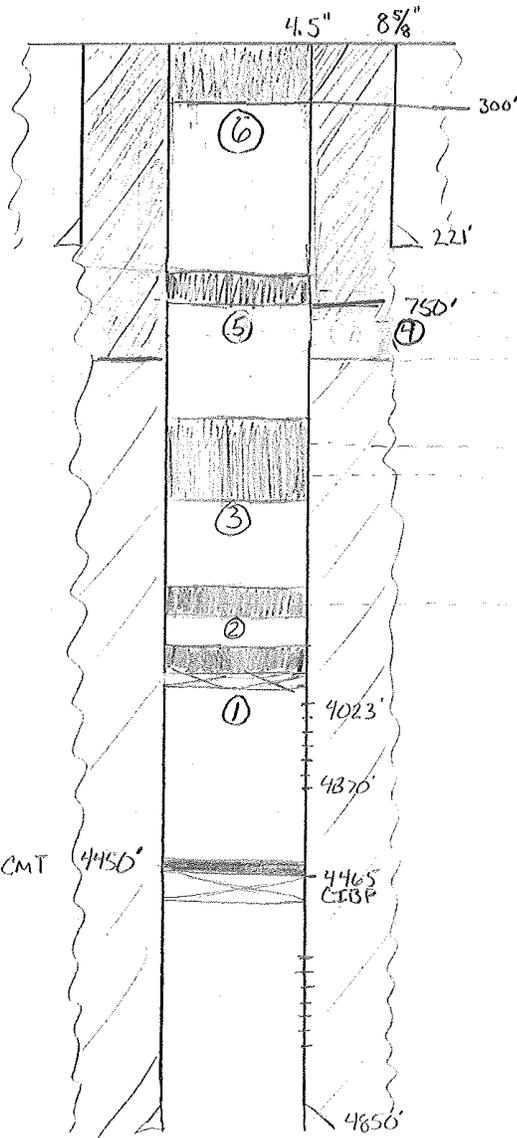
PROJECT COMPUTATIONS

NO. \_\_\_\_\_ OF \_\_\_\_\_ SHEETS

DATE \_\_\_\_\_ PROJECT \_\_\_\_\_ JOB NO. \_\_\_\_\_

BY \_\_\_\_\_ CHK.: \_\_\_\_\_ SUBJECT Collonwood Fed 1-20 P+A

Class G 1.145 ft<sup>3</sup>/skt



① CIBP @ 3960'  
CMT to 3860'  
100' x .0895 = 8.95 ft<sup>3</sup> @ 8 skt

H<sub>2</sub>O → 3860 - 2500 ≈ 21.6 bbls

② CMT 2500' - 2300'  
200' ≈ 16 skt

H<sub>2</sub>O → 2300 - 1990 = 4.9 bbls

644' USDW  
1480' TOC  
③ CMT 1990 - 1600  
390' ≈ 31 skt

GR 1713  
1892 BN  
H<sub>2</sub>O 1600 - 1750 = 13.5 bbls

④ CMT 750' on backside  
(529' x .2278 + (221)' x .2471

2403 MAH  
172% = 193 skt

⑤ CMT 720 - 540  
≈ 16 skt

H<sub>2</sub>O 540 - 300 ≈ 4 bbls

6 CMT 300 - 0

300' ≈ 24 skt

Total ≈ 288 skt

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> U-0575
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.		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
		<b>7. UNIT or CA AGREEMENT NAME:</b> MAVERICK
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> COTTONWOOD FED 1-20	
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047318750000	
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6100	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2021 FSL 0696 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESE Section: 20 Township: 09.0S Range: 21.0E Meridian: S	<b>COUNTY:</b> UINTAH	
	<b>STATE:</b> UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/30/2015  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Kerr-McGee Oil & Gas Onshore, LP has plugged and abandoned the COTTONWOOD FED 1-20 well. Please see the operations summary report for details. Thank you.		
		<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY August 19, 2015</b>
<b>NAME (PLEASE PRINT)</b> Jennifer Thomas	<b>PHONE NUMBER</b> 720 929-6808	<b>TITLE</b> Regulatory Specialist
<b>SIGNATURE</b> N/A	<b>DATE</b> 8/14/2015	

**US ROCKIES REGION**  
**Operation Summary Report**

US ROCKIES REGION								
Operation Summary Report								
Well: COTTONWOOD FED 1-20					Spud date:			
Project: UTAH-UINTAH			Site: COTTONWOOD FED 1-20			Rig name no.: WESTERN WELL SERVICES 9/9		
Event: ABANDONMENT			Start date: 7/20/2015		End date: 7/30/2015			
Active datum: RKB @4,844.00usft (above Mean Sea Level)				UWI: COTTONWOOD FED 1-20				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
7/24/2015	11:00 - 12:30	1.50	ABANDP	30	G	P		ROAD RIG FROM NBU 921-29M TO COTTENWOOD FED 1-20
	12:30 - 16:00	3.50	ABANDP	30	A	P		MIRU, SPOT EQUIP & BLOCKS
7/27/2015	7:00 - 7:15	0.25	ABANDP	48		P		HSM, JSA
	7:15 - 14:30	7.25	ABANDP	39	B	P		800@ SICP, BLOW WELL DN TO FB TNK, P/U ON RODS, COULD NOT SEE PUMP UNSEAT, TRY TO FLUSH RODS W/ HOT OILER, TBG PRESSURED UP & COULDNT FLUSH, TOO H & HANG RODS IN DERRICK, LD PUMP, TIH W/ RODS, FLUSH RODS W/ HOT OILER, TOO H & LD RODS ON TRAILER
	14:30 - 16:00	1.50	ABANDP	30	F	P		ND WH, NU BOP'S, RU FLOOR & TBG EQUIP
	16:00 - 18:00	2.00	ABANDP	31	I	P		MIRU SCAN TECH, TOO H & SCAN 2-3/8" TBG, TBG SCAN SHOWED 83 YELLOW JTS, 20 BLUE JTS & 31 RED JTS, RD SCAN TECH, SWI, SDFN
7/28/2015	7:00 - 7:15	0.25	ABANDP	48		P		HSM, JSA
	7:15 - 9:30	2.25	ABANDP	34	G	P		MIRU CASED HOLE SOLUTIONS, RIH W/ GAUGE RING (HEAVY OIL IN WELL) STACK OUT @ 2350', POOH
	9:30 - 12:00	2.50	ABANDP	31	I	P		TIH W/ 2-3/8" TBG TO 4000', MIRU ACTION HOTOIL, CIRC OIL OUT OF CSG, TOO H W/ TBG
	12:00 - 14:00	2.00	ABANDP	34	G	P		RIH W/ GAUGE RING & STACK OUT @ 2350' AGIN, POOH W/ GAUGE RING
	14:00 - 16:00	2.00	ABANDP	31	I	P		P/U 3-7/8" MILL, TIH W/ TBG TO 4000', CIRC WELL, TOO H W/ TBG & LD MILL
	16:00 - 19:00	3.00	ABANDP	34	I	P		P/U CIBP, RIH SET CIBP @ 3960', POOH, SWI, SDFN
7/29/2015	7:00 - 7:15	0.25	ABANDP	48		P		HSM, JSA
	7:15 - 10:30	3.25	ABANDP	34		P		RUN GYRO SURVEY
	10:30 - 11:30	1.00	ABANDP	31	I	P		TIH W/ 2-3/8" TBG TO CIBP @ 3950'
	11:30 - 16:00	4.50	ABANDP	51	D	P		MIRU PRO PETRO, PRESSURE TEST CSG TO 500#, PUMP 5 BBLS FRESH, MIX & PUMP 16SX @ 15.8PPG, DISPLACE W/ 10BBLS T-MAC, PUH TO 2500', PUMP 5 BBLS FRESH, MIX & PUMP 16SX @ 15.8PPG, DISPLACE W/ 10BBLS T-MAC, PUH TO 1990', PUMP 5 BBLS FRESH, MIX & PUMP 31SX @ 15.8PPG, DISPLACE W/ 1.9BBLS T-MAC, TOO H W/ TBG, RU CASED HOLE, TIH & PERF CSG @ 750', POOH & RD CASED HOLE, P/UMPE 13 BBLS T-MAC TO ESTB AN INJECTION RATE & GOT RETURNS UP SURFACE CSG, MIX & PUMP 337SX @ 15.8PPG, GOT RETURNS TO SURFACE
	16:00 - 17:30	1.50	ABANDP	30	C	P		ND BOP'S, NU WH, RD MO
7/30/2015	7:00 - 7:15	0.25	ABANDP	48		P		HSM, JSA
	7:15 - 9:30	2.25	ABANDP	51	D	P		DIG AROUND WELLHEAD, CUT WELLHEAD OFF, TOP OFF CSG TO SURFACE W/ 50SX CMT, RD PRO PETRO, WELD CAP ON CSG & BACKFILL
LAT 40.1191 LONG -109.34121								