

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS WELL LOG ELECTRIC LOGS FILE **X** WATER SANDS LOCATION INSPECTED SUB. REPORT /abd

DATE FILED **9-9-91**

LAND: FEE & PATENTED **X** STATE LEASE NO. PUBLIC LEASE NO. INDIAN

DRILLING APPROVED: **10-3-91**

SPUDED IN:

COMPLETED: **10-3-92 LA** PUT TO PRODUCING

INITIAL PRODUCTION

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION:

DATE ABANDONED: **LAD APD EXPIRED eff 12-3-92**

FIELD: **WILDCAT**

UNIT:

COUNTY: **CARBON**

WELL NO. **1210-0812 #1** API NO. **43-007-30145**

LOCATION **1964' FSL** FT. FROM (N) (S) LINE. **810' FWL** FT. FROM (E) (W) LINE. **NW SW** 1/4 - 1/4 SEC **8**

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
12S	10E	8	COCKRELL OIL CORP.				

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

5. Lease Designation and Serial No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL [X] DEEPEN [] PLUG BACK []

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

2. Name of Operator Cockrell Oil Corporation (713) 651-1271

3. Address of Operator 1600 Smith Street, Suite 4600, Houston, Texas 77002-7348

4. Location of Well (Report location clearly and in accordance with any State requirements.*) At surface 1964' FSL, 810' FWL (NW 1/4 SW 1/4) Section 8, T12S, R10E At proposed prod. zone Same

Fee Not Applicable

6. If Indian, Allottee or Tribe Name Not Applicable

7. Unit Agreement Name Not Applicable

8. Farm or Lease Name 1210-0812

9. Well No. 1

10. Field and Pool, or Wildcat Wildcat 001

11. Sec., T., R., M., or Blk. and Survey or Area Section 8, T12S, R10E

14. Distance in miles and direction from nearest town or post office* Eight (8) Miles Northeast of Helper, Utah

12. County or Parrish 13. State Carbon Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any) 810'

16. No. of acres in lease 320

17. No. of acres assigned to this well 320

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft. N/A

19. Proposed depth 5250' SPSS

20. Rotary or cable tools Rotary

21. Elevations (Show whether DF, RT, GR, etc.) 7512' GR

22. Approx. date work will start* October 1, 1991

23. PROPOSED CASING AND CEMENTING PROGRAM

Table with 5 columns: Size of Hole, Size of Casing, Weight per Foot, Setting Depth, Quantity of Cement. Rows include 12-1/4" casing and 7-7/8" casing.

* Cement volume may change due to hole size. Calculate from Caliper log.

PLEASE REFER TO ATTACHED DRILLING PROGNOSIS.

RECEIVED

SEP 09 1991

TECHNICAL REVIEW

Engr. [Signature] 10/3/91

Geol. [Signature] 9/23/91

Surface [Signature] 9/20/91

DIVISION OF OIL GAS & MINING

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 Dale Heitzman Title Consultant Date 09/04/91

Permit No. 43-007-30145 Approval Date

Approved by [Signature] Title [Signature] DATE 10/3/91 BY [Signature] WELL SPAC 615-3-2

T12S, R10E, S.L.B.&M.

COCKRELL OIL CORP.

Well location, WELL 1210-0812 No. 1, located as shown in the NW 1/4 SW 1/4 of Section 8, T12S, R10E, S.L.B.&M. Carbon County, Utah.

BASIS OF ELEVATION

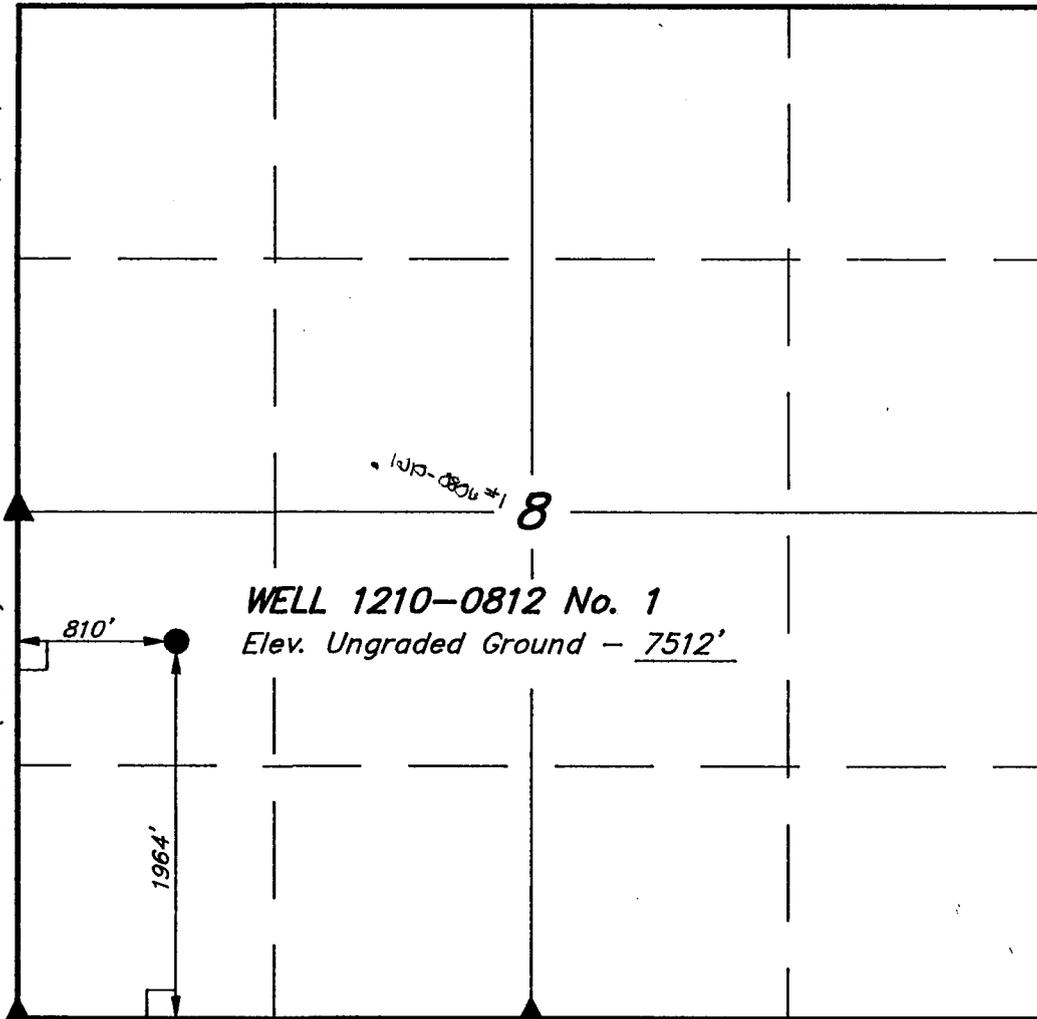
BENCH MARK LOCATED IN THE NW 1/4 OF SECTION 7, T12S, R10E, S.L.B.&M. TAKEN FROM THE MATTS SUMMIT QUADRANGLE, UTAH, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 7454 FEET.

N89°41'W - 41.13 (G.L.O.)

N89°26'W - 41.49 (G.L.O.)

N0°35'E - 40.75 (G.L.O.)

N0°13'W - G.L.O. Basis of Bearings)
2798.73' - (Measured)

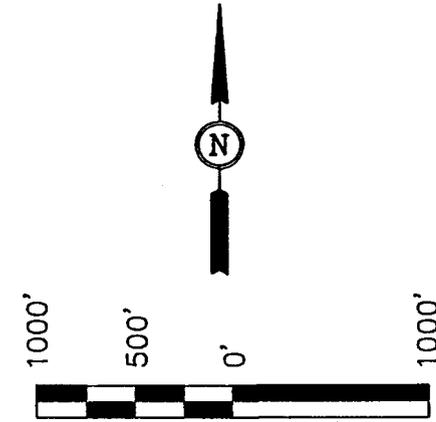


N0°37'E - 83.08 (G.L.O.)

S89°09'24"E - 2683.87' (Meas.)

S89°59'W - 41.31 (G.L.O.)

▲ = SECTION CORNERS LOCATED. (Brass Caps)



CERTIFICATE
 REGISTERED LAND SURVEYOR
 ROBERT L. KEAY
 REGISTERED AND SURVEYOR
 REGISTRATION NO. 5709
 STATE OF UTAH

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.

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

SCALE 1" = 1000'	DATE 8-5-91
PARTY J.K. B.C. R.E.H.	REFERENCES G.L.O. PLAT
WEATHER HOT	FILE COCKRELL OIL CORP.

COCKRELL OIL CORPORATION

1210-0812 #1
 NW¼SW¼ Section 8, T12S, R10E
 Carbon County, Utah

Proposed Drilling Prognosis

1. Estimated Tops of Important Geologic Markers:

Flagstaff	Surface	Blackhawk	4100'
North Horn	500'	Aberdeen	4930'
Price River	3300'	Spring Canyon	5150'
Castle Gate	3800'	Total Depth	5250'

2. Estimated Depths of Anticipated Water, Oil and Gas:

Blackhawk	4100'	Gas
Aberdeen	4930'	Gas

Fresh water zones, if any, encountered during drilling will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

3. Pressure Control Equipment: (Schematic Attached)

Type : 11" Double Gate Hydraulic with one (1) blind ram and one (1) pipe ram equipped with automatic choke manifold.

Pressure Rating : 2000 psi BOP, 2000 psi choke manifold

BOP and related pressure control equipment will be tested to 70% of the minimum internal yield pressure prior to drilling out the surface casing shoe and tested every thirty (30) days thereafter and recorded in the driller's log.

4. Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0- 400'	Fresh Water/Gel	8.3-9.0	28-60	NC
400-5250'	Fresh Water/Gel/ Caustic	8.7-9.0	38-45	10-20 cc's

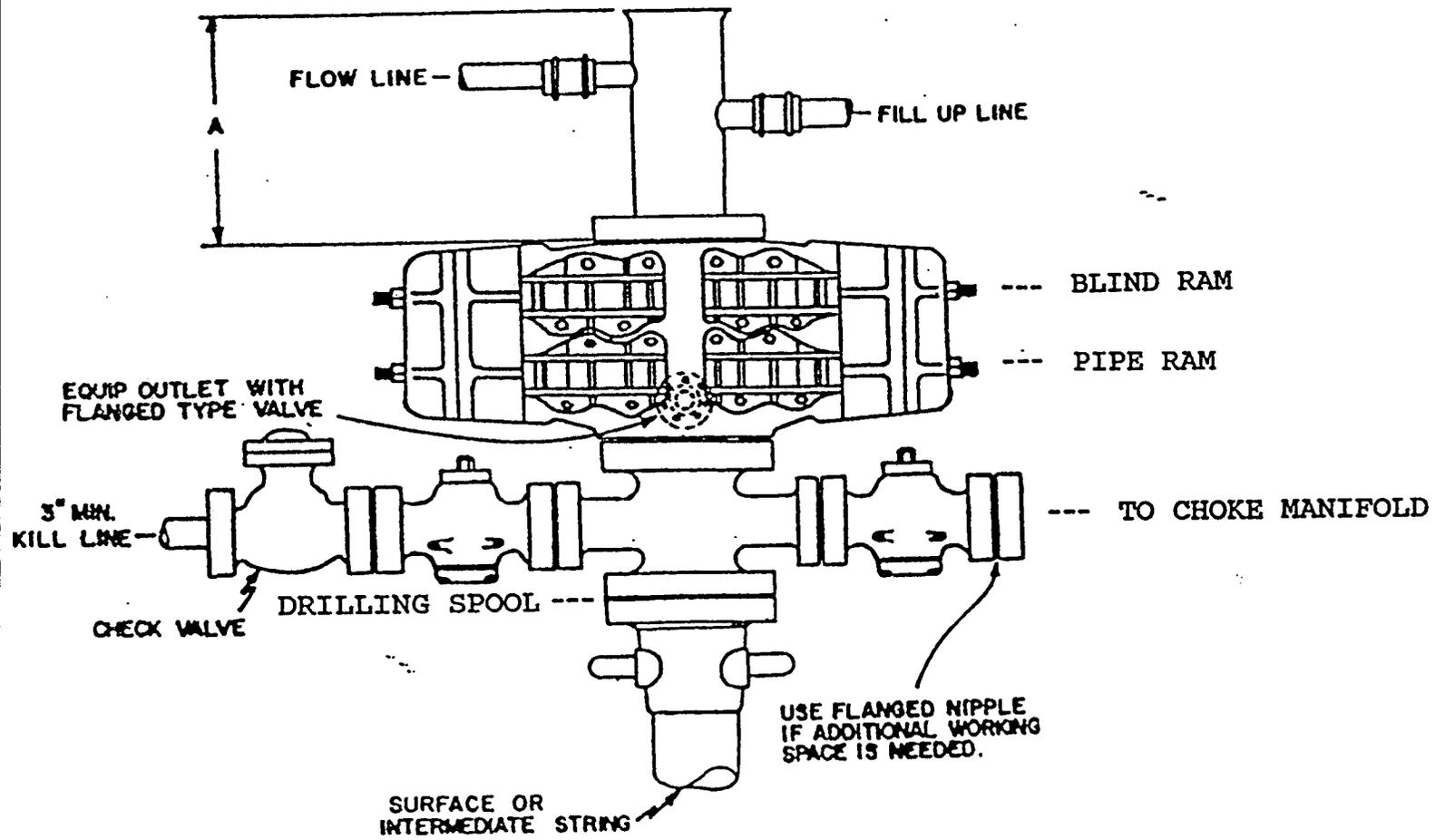
5. Evaluation Program:

Logs : Dual Induction Guard - 5250'-400'
 Spectral Density/Dual Spaced Neutron - 5250'-400'
 High Resolution Spectral Density - 5250'-400'
 Microlog - 5250'-400'

DST's : None Anticipated

Cores : None Anticipated

TYPICAL BOP DIAGRAM



BLOWOUT PREVENTER

COCKRELL OIL CORPORATION

1210-0812 #1
NW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 8, T12S, R10E
Carbon County, Utah

Supplement to Application for Permit to Drill

1. Location and Type of Water Supply:

- A. Produced water from existing coal bed methane wells owned by Cockrell Oil Corporation will be utilized for drilling operations.
- B. Fresh water which may be required for drilling and/or completion operations will be obtained from Willow Creek at a point located in the NE $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 10, T12S, R10E. Approval of an Application for Permit to Appropriate Surface Water will be obtained from the office of the Utah State Engineer prior to diversion of any water from Willow Creek.

2. Methods of Handling Waste Disposal:

- A. Sewage - self-contained, chemical toilets will be provided for human waste disposal.
- B. Garbage and other waste materials - all trash will be contained in a portable trash cage. Upon completion of operations, all trash will be hauled to an approved sanitary landfill.
- C. Cuttings and drilling fluids - the cuttings will be deposited in the reserve pit. Drilling fluids will be contained in reserve pit and allowed to evaporate. The reserve pit will be designed to prevent the collection of surface runoff and will be constructed with a minimum of one-half (1/2) the total depth below the original ground surface on the lowest point within the pit. The reserve pit will not be lined as only fresh water will be used if drilling with air is not utilized.

3. Plans for Reclamation of the Surface:

- A. Backfilling, leveling and re-contouring are planned as soon as the reserve pit dries. Waste and spoil materials will be disposed of immediately upon completion of drilling and workover activities. If production is established, the unneeded areas of the location will be reclaimed as soon as the reserve pit dries.
- B. Upon completion of backfilling, leveling and re-contouring, the stock-piled topsoil will be evenly spread over the reclaimed area(s). All disturbed surfaces (including access road and well pad areas) will be reseeded using the seed mixture recommended by the State of Utah.
- C. Three sides of the reserve pit will be fenced during drilling operations. Prior to rig release, the reserve pit will be fenced on the fourth side to prevent livestock and wildlife from becoming entrapped, and the fencing will be maintained until leveling and cleanup are accomplished.
- D. If any oil is on the pits and is not immediately removed after operations cease, the pit containing the oil or other adverse substances will be flagged overhead or covered with wire mesh.

Cockrell Oil Corporation

Supplement to Application for Permit to Drill
Page 2

3. Plans for Reclamation of the Surface: Continued

E. The reclamation operations will begin after the drilling rig is removed. Removal of oil or other adverse substances will begin immediately or area will be flagged and fenced. Other cleanup will be done as needed. Rehabilitation operations should be completed by the Fall of 1992.

4. Surface Ownership:

The TN Company
c/o James T., Jerry L. and Dix Jensen
190 North Carbon Avenue
Price, Utah 84501
Telephone: (801) 637-1542

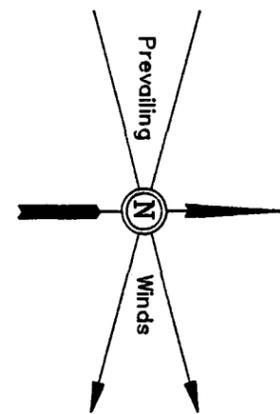
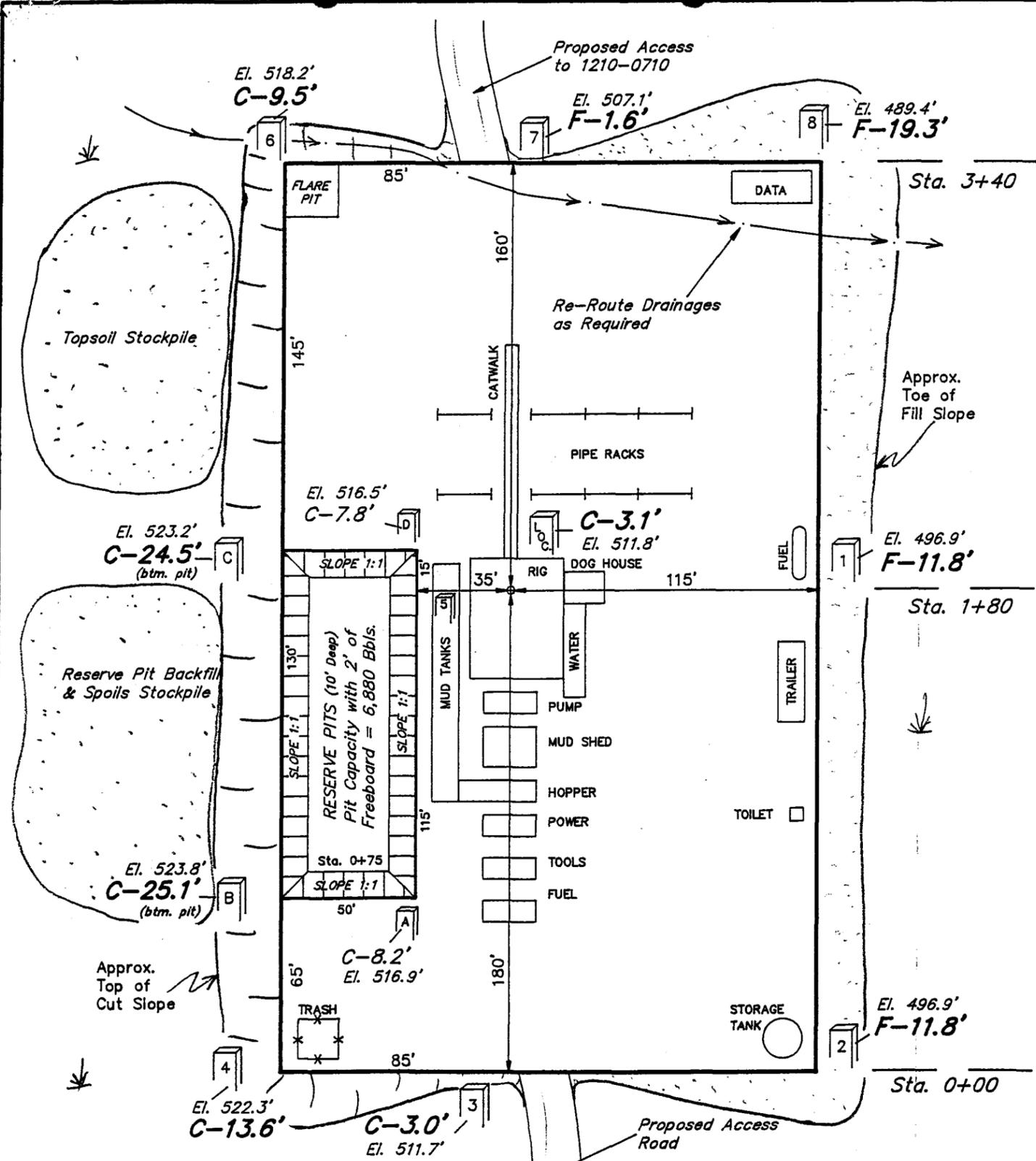
5. Contact for Additional Data if Required:

Heitzman Drill-Site Services
Dale Heitzman/Bob Anderson
P. O. Box 3579
Casper, Wyoming 82602
Telephone: (307) 266-4840

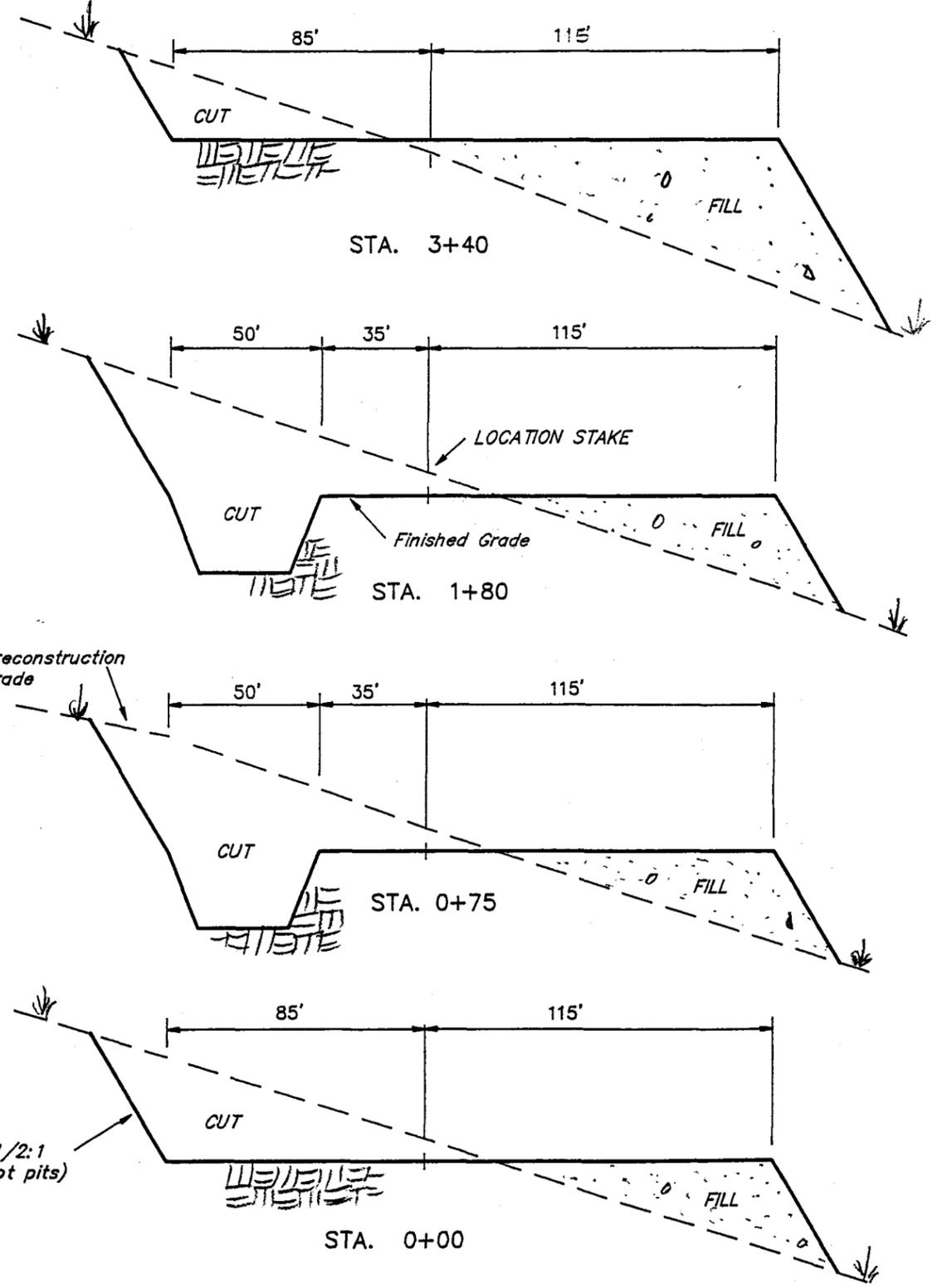
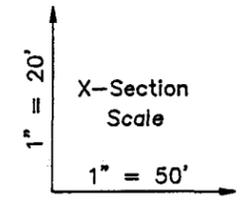
COCKRELL OIL CORP.

LOCATION LAYOUT FOR

WELL 1210-0812 NO. 1
SECTION 8, T12S, R10E, S.L.B.&M.



SCALE: 1" = 50'
DATE: 8-5-91
Drawn By: R.E.H.



TYP. LOCATION LAYOUT

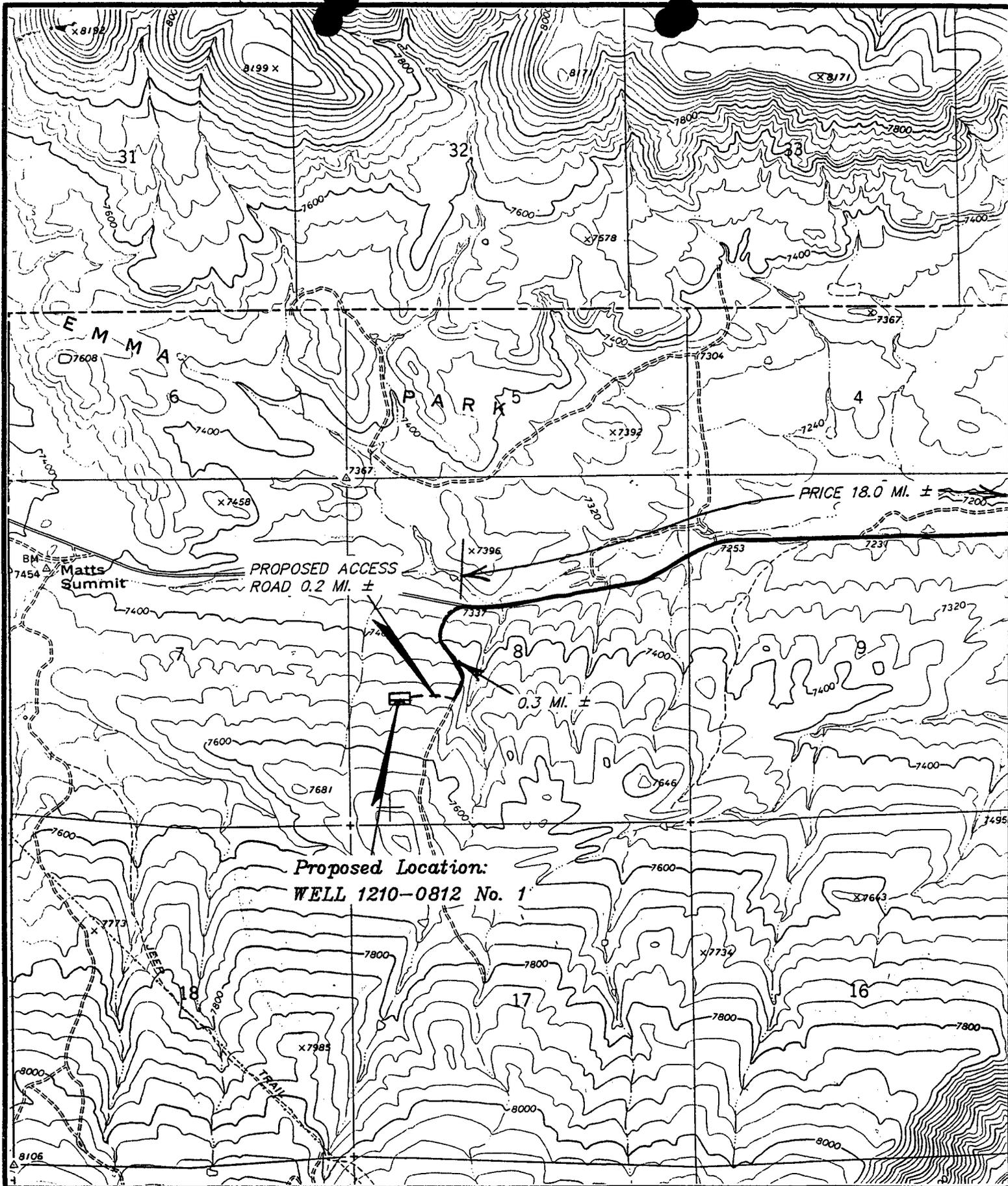
TYP. CROSS SECTIONS

APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 1,300 Cu. Yds.
Remaining Location	= 12,570 Cu. Yds.
TOTAL CUT	= 13,870 CU.YDS.
FILL	= 11,090 CU.YDS.

EXCESS MATERIAL AFTER 5% COMPACTION	= 2,200 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 2,190 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 10 Cu. Yds.

ELEV. UNGRADED GROUND AT LOC. STAKE = 7511.8'
ELEV. GRADED GROUND AT LOC. STAKE = 7508.7'



TOPOGRAPHIC
 MAP "B"
 SCALE: 1" = 2000'
 DATE 8-5-91 R.E.H.



COCKRELL OIL CORP.
 WELL 1210-0812 No. 1
 SECTION 8, T12S, R10E, S.L.B.&M.

DRILLING LOCATION ASSESSMENT

State of Utah
Division of Oil, Gas and Mining

OPERATOR: COCKRELL OIL CORP. WELL NAME: 1210-0812 #1
SECTION: 08 TWP: 12S RNG: 10E LOC: 1964 FSL 810 FWL
QTR/QTR NW/SW COUNTY: CARBON FIELD: WILDCAT
SURFACE OWNER: JERRY JENSEN
SPACING: 460 F SECTION LINE 460 F QTR/QTR LINE 920 F ANOTHER WELL
INSPECTOR: BRAD HILL DATE AND TIME: 8/20/91 11:40

PARTICIPANTS: Dan Jarvis-DOGM, Robert Kay-Uintah Engineering,
Robert Anderson-Permit Agent, Bill Elliott-Cockrell, Jerry
Jensen-Landowner

REGIONAL SETTING/TOPOGRAPHY: The proposed location is on the
western edge of the Book Cliffs north of Indian Canyon. It is on
a northeast facing dip slope of the Flagstaff Limestone.

LAND USE:

CURRENT SURFACE USE: Wildlife habitat and domestic grazing.

PROPOSED SURFACE DISTURBANCE: A rectangular pad will be
constructed approximately 340'X 200' including a 130'X 50'
reserve pit. A .2 mile access road will be constructed.

AFFECTED FLOODPLAINS AND/OR WETLANDS: None.

FLORA/FAUNA: Sage, Serviceberry, Bunch Grass, Wildflowers,
Thistles, Lupine/Deer, Elk, Rabbits, Sage Grouse, Birds, Bugs

ENVIRONMENTAL PARAMETERS

SURFACE GEOLOGY

SOIL TYPE AND CHARACTERISTICS: Silty-Clay soil with
abundant limestone fragments.

SURFACE FORMATION & CHARACTERISTICS: Quaternary alluvium and
weathered Flagstaff Limestone.

EROSION/SEDIMENTATION/STABILITY: No active erosion or
sedimentation at present. Location should be stable.

PALEONTOLOGICAL POTENTIAL: None observed.

SUBSURFACE GEOLOGY

OBJECTIVES/DEPTHS: Blackhawk-4100', Aberdeen 4930'

ABNORMAL PRESSURES-HIGH AND LOW: None anticipated.

CULTURAL RESOURCES/ARCHAEOLOGY: To be done by Metcaff and Ass.

CONSTRUCTION MATERIALS: Onsite materials will be used for construction.

SITE RECLAMATION: To be reclaimed as per Landowner instructions.

RESERVE PIT

CHARACTERISTICS: 150'X 50'X 10'

LINING: To be examined after construction to determine if a synthetic liner is needed.

MUD PROGRAM: 0-400'-Fresh Water/gel; 400-5350'-Fresh Water/gel/caustic

DRILLING WATER SUPPLY: Water will be obtained from nearby Cockrell wells.

STIPULATIONS FOR APD APPROVAL

Location is to be bermed to prevent run off from location.
Reserve pit is to be evaluated prior to introduction of fluids to determine lining requirements.

ATTACHMENTS

Photographs will be placed on file.

STATE ACTIONS

Mail to:
RDCC Coordinator
116 State Capitol
Salt Lake City, Utah 84114

1. ADMINISTERING STATE AGENCY
OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
2. STATE APPLICATION IDENTIFIER NUMBER:
(assigned by State Clearinghouse)
3. APPROXIMATE DATE PROJECT WILL START:
October 1, 1991
4. AREAWIDE CLEARING HOUSE(S) RECEIVING STATE ACTIONS:
(to be sent out by agency in block 1)
Southeastern Utah Association of Governments
5. TYPE OF ACTION: Lease Permit License Land Acquisition
 Land Sale Land Exchange Other _____
6. TITLE OF PROPOSED ACTION:
Application for Permit to Drill
7. DESCRIPTION:
Cockrell Oil Corporation proposes to drill a wildcat well, the 1210-0812 #1 on a private lease in Carbon County, Utah. This action is being presented to RDCC for consideration of resource issues affecting state interests. The DOGM is the primary administrative agency in this case and must issue approval to drill before operations can commence.
8. LAND AFFECTED (site location map required) (indicate county)
NW/4, SW/4, Section 8, Township 12 South, Range 10 East, Carbon County, Utah
9. HAS THE LOCAL GOVERNMENT(S) BEEN CONTACTED?
Unknown
10. POSSIBLE SIGNIFICANT IMPACTS LIKELY TO OCCUR:
No significant impacts are likely to occur
11. NAME AND PHONE NUMBER OF DISTRICT REPRESENTATIVE FROM YOUR AGENCY NEAR PROJECT SITE, IF APPLICABLE:
12. FOR FURTHER INFORMATION, CONTACT:
Frank R. Matthews
PHONE: 538-5340
13. SIGNATURE AND TITLE OF AUTHORIZED OFFICIAL

DATE: 9-16-91
Petroleum Engineer

WOI152

OPERATOR Cockrell Oil Corp L-1035 DATE 10-1-91

WELL NAME W10-0810 #1

SEC NW/4 T 10S R 10E COUNTY Carbon

43-007-30145
API NUMBER

free (J)
TYPE OF LEASE

CHECK OFF:

- PLAT.
- LEASE
- BOND
00038
80,000
- FIELD
SLBM
- NEAREST
WELL
- POTASH OR
OIL SHALE

PROCESSING COMMENTS:

falls within guidelines of Annual State Spacing
Water Permit
Permit 9-13-91 (Biology included) 9-13-91
ROCC 9-13-91

APPROVAL LETTER:

SPACING: R615-2-3 N/A R615-3-2
UNIT

N/A R615-3-3
CAUSE NO. & DATE

STIPULATIONS:

- free stipulation
- Water Permit
- 3 Location is to be bermed to prevent runoff from site pad.
- 4 Reserve pit is to be evaluated for lining prior to the introduction of fluids.



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

October 3, 1991

Cockrell Oil Corporation
1600 Smith Street, Suite 4600
Houston, Texas 77002-7348

Gentlemen:

Re: 1210-0812 #1 Well, 1964 feet from the South line, 810 feet from the West line, NW SW, Section 8, Township 12 South, Range 10 East, Carbon County, Utah

Approval to drill the referenced well is hereby granted in accordance with Utah Admin. R.615-3-2, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Utah Code Ann. Section 73-3, Appropriation.
2. Cockrell Oil Corporation, as designated operator, is the bonded principal in reference to this Application for Permit to Drill. Should this designation change or a transfer of ownership occur, liability will remain with the designated operator until the Division is notified by letter of a new bonded principal.
3. Well site is to be bermed to prevent surface runoff from the site.
4. Reserve pit is to be evaluated to determine need for liner prior to the introduction of fluids.

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

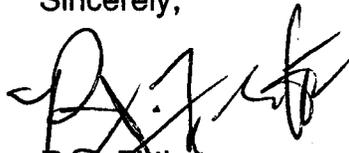
1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of Entity Action Form 6, within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.

Page 2
Cockrell Oil Corporation
1210-0812 #1
October 3, 1991

3. Submittal of the Report of Water Encountered During Drilling, Form 7.
4. Prompt notification in the event it is necessary to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801) 538-5340, (Home) (801) 476-8613, or R. J. Firth, Associate Director, (Home) (801) 571-6068.
5. Compliance with the requirements of Utah Admin. R.615-3-20, Gas Flaring or Venting.
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 Department of Environmental Quality, Division of Drinking Water/Sanitation, telephone (801) 538-6159.
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 43-007-30145.

Sincerely,



R. J. Firth
Associate Director, Oil & Gas

tas
Enclosures
cc: Bureau of Land Management
J. L. Thompson
we14/1-4



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

December 3, 1992

Cockrell Oil Corporation
1600 Smith Street, Suite 4600
Houston, Texas 77002-7348

Gentlemen:

Re: 1210-0812 #1, Sec. 8, T. 12S, R. 10E, Carbon County, Utah
API No. 43-007-30145

Due to excessive time delay in commencing drilling operations, approval to drill the subject well is hereby rescinded, effective immediately.

Please note that a new Application for Permit to Drill must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division of Oil, Gas and Mining immediately.

Sincerely,

Don Staley
Administrative Supervisor
Oil and Gas

DME/lde

cc: R.J. Firth

Well file

WOI219