NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Betty Rivera
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

ADMINISTRATIVE ORDER SWD-831

APPLICATION OF SAMSON RESOURCES COMPANY FOR SALT WATER DISPOSAL, LEA COUNTY, NEW MEXICO.

ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION DIVISION

Under the provisions of Rule 701(B), Samson Resources Company made application to the New Mexico Oil Conservation Division on February 19, 2002, for permission to complete for produced water disposal its State BD Well No. 3 (API No. 30-025-01033) located 1980 feet from the South line and 660 feet from the East line (Unit I) of Section 2, Township 12 South, Range 33 East, NMPM, Lea County, New Mexico.

THE DIVISION DIRECTOR FINDS THAT:

(1) The application has been duly filed under the provisions of Rule 701(B) of the Division Rules and Regulations;

(2) Satisfactory information has been provided that all offset operators and surface owners have been duly notified;

(3) The applicant has presented satisfactory evidence that all requirements prescribed in Rule 701 will be met; and

(4) No objections have been received within the waiting period prescribed by said rule.

IT IS THEREFORE ORDERED THAT:

Samson Resources Company is hereby authorized to complete its State BD Well No. 3 (API No. 30-025-01033) located 1980 feet from the South line and 660 feet from the East line (Unit I) of Section 2, Township 12 South, Range 33 East, NMPM, Lea County, New Mexico, in such a manner as to permit the injection of produced water for disposal purposes into the Devonian formation from a depth of 11060 feet to 11400 feet through 3 1/2 inch plastic-lined tubing set in a packer located at approximately 11000 feet.

IT IS FURTHER ORDERED THAT:

The operator shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

Prior to commencing injection operations into the well, the casing shall be pressure tested from the surface to the packer setting depth to assure the integrity of said casing.

The casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge at the surface or left open to the atmosphere to facilitate detection of leakage in the casing, tubing, or packer.

The injection well or system shall be equipped with a pressure limiting device which will limit the wellhead pressure on the injection well to no more than 2212 psi.

The Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the injected fluid from the Devonian formation. Such proper showing shall consist of a valid step-rate test run in accordance with and acceptable to this office.

The operator shall notify the supervisor of the Hobbs District Office of the Division of the date and time of the installation of disposal equipment and of any mechanical integrity test so that the same may be inspected and witnessed.

The operator shall immediately notify the supervisor of the Hobbs District Office of the Division of the failure of the tubing, casing, or packer in said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

PROVIDED FURTHER THAT, jurisdiction is retained by the Division for the entry of such further orders as may be necessary for the prevention of waste and/or protection of correlative rights or upon failure of the operator to conduct operations (1) to protect fresh water or (2) consistent with the requirements in this order, whereupon the Division may, after notice and hearing, terminate the injection authority granted herein.

The operator shall submit monthly reports of the disposal operations on Division Form C-115, in accordance with Rule Nos. 706 and 1120 of the Division Rules and Regulations.

The injection authority granted herein shall terminate one year after the effective date of this order if the operator has not commenced injection operations into the subject well, provided however, the Division, upon written request by the operator, may grant an extension thereof for good cause shown.

2/19/02	3/6/02	ENGINEER DC	LOGGED IN KW	TYPE SWD	PKRV APP NO. 0205137235

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

FEB 19 2002

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☒ Offset Operators, Leaseholders or Surface Owner

[C] ☒ Application is One Which Requires Published Legal Notice

[D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☒ For all of the above, Proof of Notification or Publication is Attached, and/or,
(See Exhibit J & K)

[F] ☐ Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

KEVIN C. OLSON	Kevin C Olson	District Engineer	2/14/02
Print or Type Name	Signature	Title	Date

KOLSON @ SAMSON. COM
e-mail Address

Samson

Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918-583-1791
Fax 918 591 1790

Sent Via Federal Express

February 12, 2002

State of New Mexico
Oil Conservation Division
Attn: Mr. David Catanach
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: Application for Authorization to Inject
State BD #3
Sec. 2-12S-33E, Bagley Field
Lea, NM
API #30-025-01033

Dear Mr. Catanach:

Please find enclosed the revised Form C-108 Application and related documents for the purpose of obtaining an injection permit for the above referenced well.

If additional information is required, please do not hesitate to contact me at (918) 591-1388.

Your prompt attention to this matter will be greatly appreciated.

Sincerely,

SAMSON RESOURCES COMPANY

Debbie Bedingfield
Environmental & Safety Technician

DB:

Cc: State of New Mexico – District Office
1625 N. French Drive
Hobbs, NM 88240

Kevin Olson - Samson (Tulsa)

Enclosure

02 FEB 19 AM 10:20

SAMSON RESOURCES COMPANY
STATE BD #3

TABLE OF CONTENTS

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

FORM C-108
Revised 4-1-98

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____Secondary Recovery _____Pressure Maintenance __X__Disposal _____Storage
Application qualifies for administrative approval? __X__Yes _____No

II. OPERATOR: Samson Resources Company

ADDRESS: Two West Second Street, Tulsa, OK 74103-3103

CONTACT PARTY: Kevin Olson PHONE: (918) 591-1821

III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? _____Yes __x__No
If yes, give the Division order number authorizing the project: _____

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any. 5,000 gallons of HCL if needed.

*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).

*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: Kevin C Olson TITLE: District Engineer

SIGNATURE: KEVIN C. OLSON DATE: 2/14/02

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: Logs and test data submitted in 1952 by previous operator.

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

Side 2

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

(1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.

(2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

(3) A description of the tubing to be used including its size, lining material, and setting depth.

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

(1) The name of the injection formation and, if applicable, the field or pool name.

(2) The injection interval and whether it is perforated or open-hole.

(3) State if the well was drilled for injection or, if not, the original purpose of the well.

(4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.

(5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

(1) The name, address, phone number, and contact party for the applicant;

(2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;

(3) The formation name and depth with expected maximum injection rates and pressures; and,

(4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

EXHIBIT C

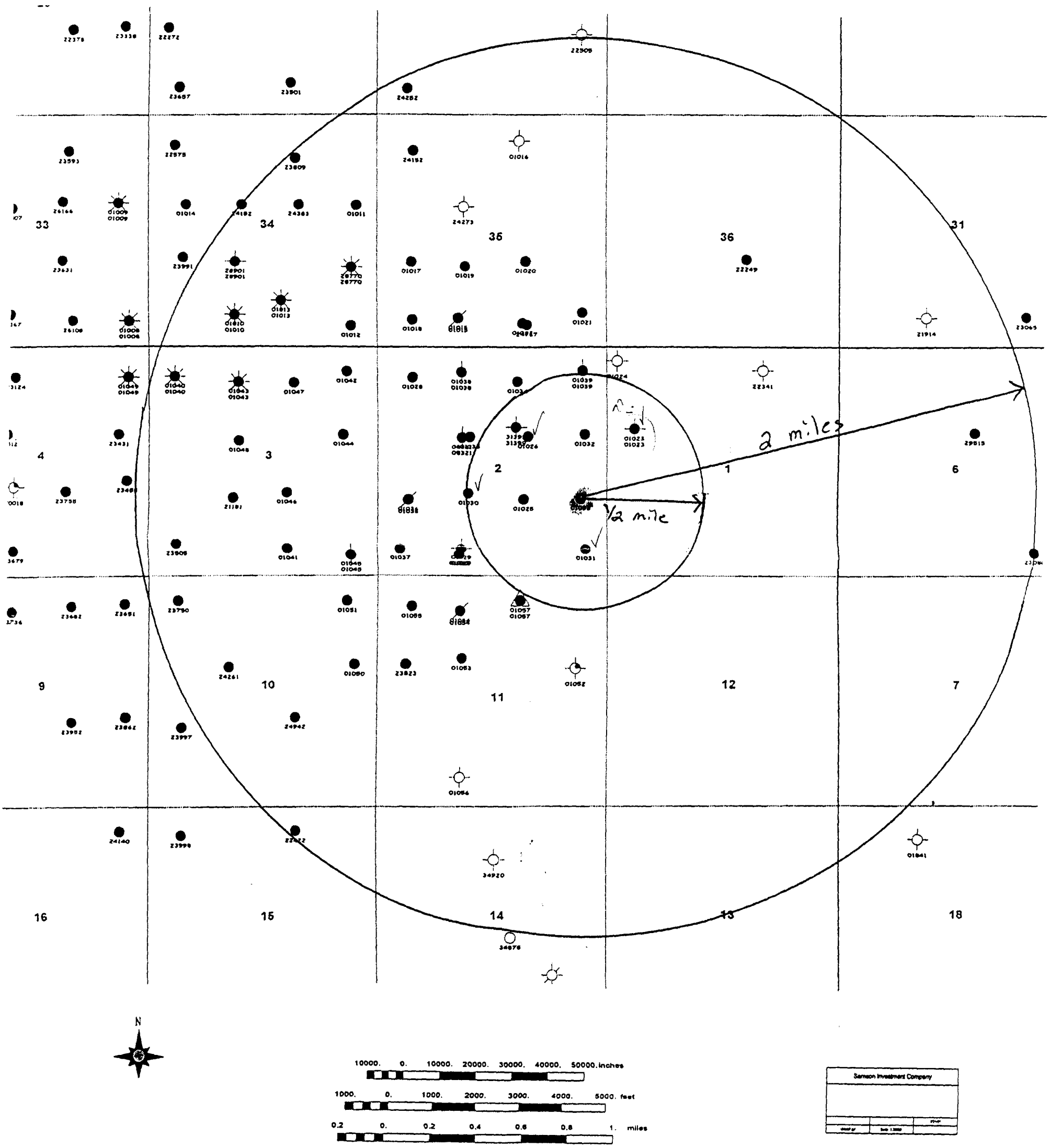

2 miles
½ mile
N
10000. 0. 10000. 20000. 30000. 40000. 50000. inches
1000. 0. 1000. 2000. 3000. 4000. 5000. feet
0.2 0. 0.2 0.4 0.6 0.8 1. miles
Samson Investment Company

EXHIBIT D

State BD #3
Lea County, NM

Table of Wells within 1/2 mile that penetrate proposed injection zone (11,060 - 11,400')

Operator	Lease Name	Well #	API Number	Type	Location	Date Drilled	Completion Date	Total Depth	Plugback Depth	Casing Data	Cement Data	Top of Cement	Squeeze Info	Producing Zone	Producing Formation	Status
Sunray DX Oil Company	State	1	30-025-01023	Oil	SW/NW 1-12S-33E	5/29/1949	10/27/1949	10823'	N/A	13-3/8" @ 298' 9-5/8" @ 3943' 7" @ 9349'	400 Sx 3400 Sx 400 Sx	PA'D	N/A	8800 - 8848' Perfed 8930 - 8980' Perfed 9150 - 9175' Perfed	Pennsylvanian	PA'D March 1951 (Schematic Attached)
Paladin Energy Corporation	State BT A	1	30-025-01025	Oil	NW/SE 2-12S-33E	11/25/1948	1/16/1949	11766'	10990'	13-3/8" @ 287' 8-5/8" @ 3929' 5-1/2" @ 11200'	225 Sx 1500 Sx 600 Sx	UNKNOWN	N/A	10752 - 10775 Perfed 10950 - 10965 Perfed	Siluro-Devonian	Shutin
Amerada Hess Corporation	State BT A	2	30-025-01026	Oil	SW/NE 2-12S-33E	10/23/1951	12/23/2005	9456'	N/A	11-3/4" @ 316' 7-5/8" @ 3790' 5-1/2" @ 9100'	225 Sx 1500 Sx 600 Sx	PA'D	N/A	8988 - 9000 Perfed 9020 - 9036 Perfed	Pennsylvanian	PA'D January 1973 (Schematic Attached)
Amerada Hess Corporation	State BTI	2	30-025-01030	Oil	NE/SW 2-12S-33E	8/18/1951	10/25/1951	9458'	N/A	13-3/8" @ 299' 8-5/8" @ 3795' 5-1/2" @ 9458'	225 Sx 1500 Sx 600 Sx	PA'D	N/A	9025 - 9045 Perfed 9052 - 9060 Perfed	Pennsylvanian	PA'D January 1973 (Schematic Attached)
Texas Pacific Oil Company	State BTL	1	30-025-01031	Oil	SE/SE 2-12S-33E	5/17/1951	8/30/1951	10970'	N/A	13-3/8" @ 300' 8-5/8" @ 3825' 5-1/2" @ 10970'	225 Sx 1500 Sx 600 Sx	PA'D	N/A	10840 - 10952 Perfed	Siluro-Devonian	PA'D October 1976 (Schematic Attached)
Samson Resources	State BD (formerly State B A/C 1	1	30-025-01032	Oil	SE/NE 2-12S-33E	6/30/1949	11/30/1949	10914'	10882'	13-3/8" @ 329' 9-5/8" @ 3933' 7" @ 10765'	350 Sx 2500 Sx 560 Sx	6585'	CIBP @ 10772 w/42 sx 10776 - 10782' CIBP @ 10795 w/28 sx 10806 - 10818'	10731 - 10764 Perfed (Current) 10776 - 10782 Perfed (Sqzd) 10806 - 10818 Perfed (Sqzd)	Siluro-Devonian	Shutin
Paladin Energy Corporation	State BT A	3	30-025-31399	Oil	SW/NE 2-12S-33E	12/5/1991	2/6/1992	10735' (original) 10920' (deepened)	N/A	11-3/4" @ 328' 8-5/8" @ 4015' 5-1/2" @ 10729'	475 Sx 1300 Sx 250 Sx	UNKNOWN	N/A	10729 - 10920 Openhole	Siluro-Devonian	Shutin

Samson Resources
State BD #3
Sec. 2, T12S, R33E
Lea County, NM

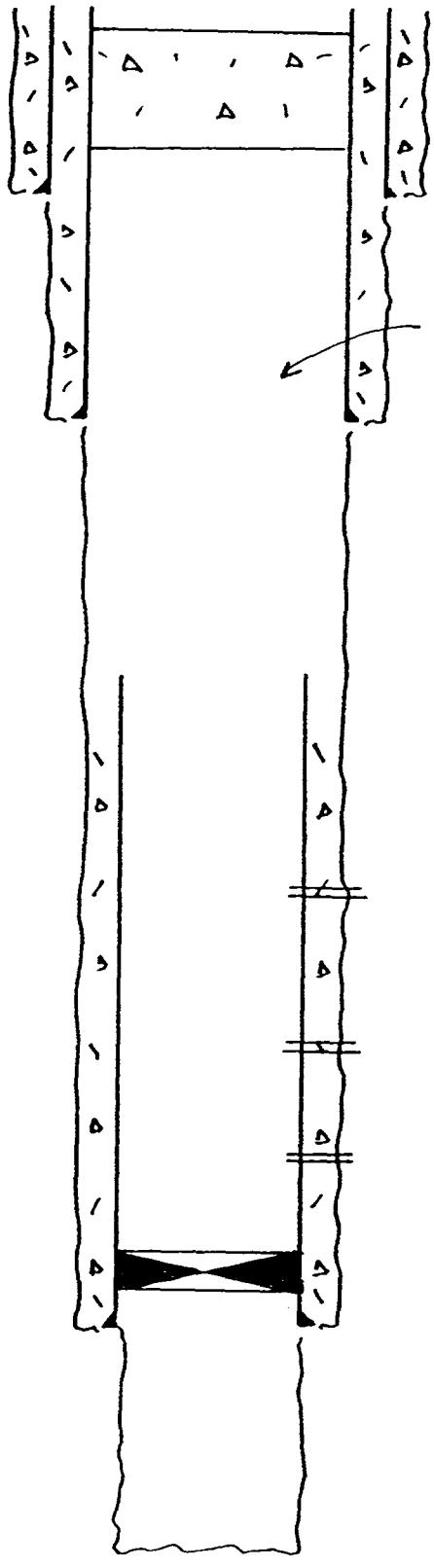
Exhibit E
Summary of Proposed Operation

Average Daily Rate of Injection:	9,000 Barrels/Day
Maximum Daily Rate of Injection:	20,000 Barrels/Day
Type of System:	Closed
Average Injection Pressure	1000 psi
Maximum Injection Pressure:	1790 psi
Sources of Injection Fluid	Reinjected Produced Water
Name of Injection Formation	Devonion
Injection Interval	Open Hole from 11,060' - 11,400'
Analysis of disposal zone formation water	See Exhibit *

STATE LAND 65 #1 LEA CO., NM 3' -25 01023

P&A

SPUD : 5/21/49
LAST : 3/22/51
1-12S-33E
1980' FNL & 660' FWL



13 3/8" @ 298'
400 SX

50' CMT PLUG IN TOP OF 9 5/8"

MUD

9 5/8" @ 3943'
3400 SX

DST #1	8540 - 8633'	REC 25' MUD
#2	8800 - 48'	REC 720' HOCM ; 70MCFD
#3	9000 - 9115'	REC 270' SGCM
#4	9113 - 40'	REC 450' OCM
#5	9200 - 81'	REC 4595' XW

7" CUT & RECOVERED @ 6721'
PLUG INSIDE 7" UNSPECIFIED

8800 - 48' 2750 GAL PENN
Np = 1.5 MBO

8930 - 80' REC 25 BO + 35 BW PENN

9150 - 75' 500 GAL PENN

7" @ 9349'
400 SX

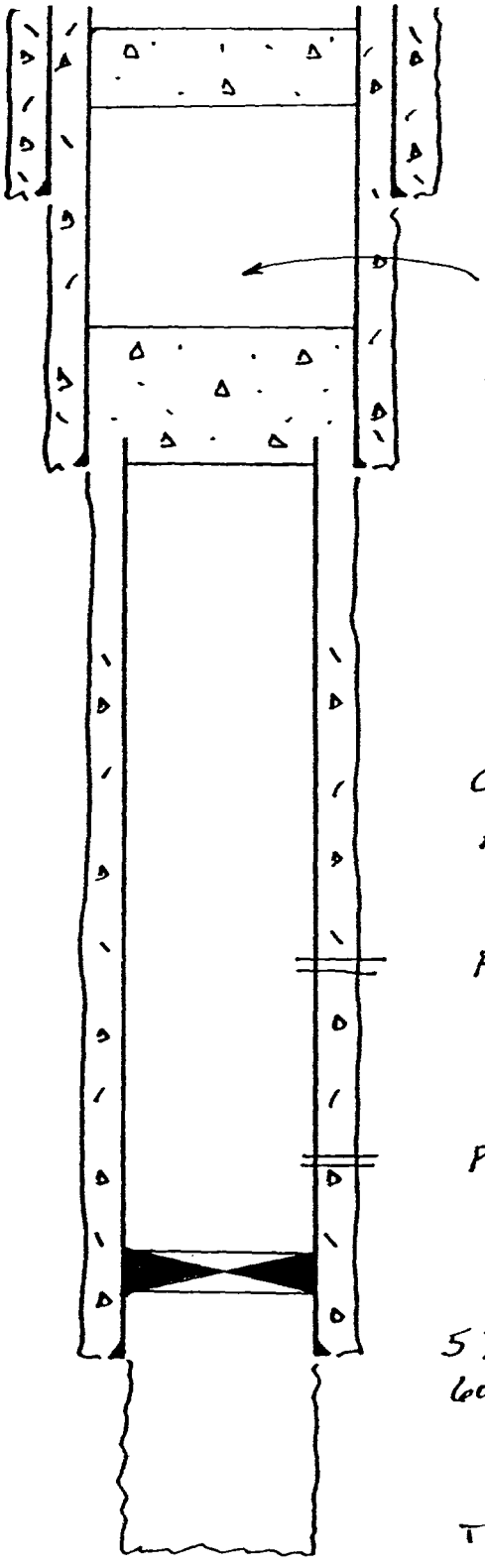
TD = 10823' (2/50)

KCO 8/01

STATE BTA #2 | -12S-33E LEA, NM | 3[illegible] 01026

SPUD: 10/23/51
LAST: 1/30/73
BHL: 1980' FNL & 1980' FEL

P&A



CEMENT 0-40'

11 3/4" @ 316'
225 SX

MUD

CEMENT 3550-3650'

7 5/8" @ 3790'
1500 SX

DST #1 8580-8771' 450' MUD
#2 8998-9050' 840' OIL, 95 BOPH
#3 9361-9456' 30' MUD.

CUT 5 1/2" @ 3636'
PLUG INSIDE 5 1/2" UNSPECIFIED

PENN (2/59) 8988-9000'
1000 GAL
PROD 333 MBO + 11 MBW PRIOR TO 1970

PENN (12/51) 9020-36'
500 GAL

5 1/2" @ 9100'
600 SX

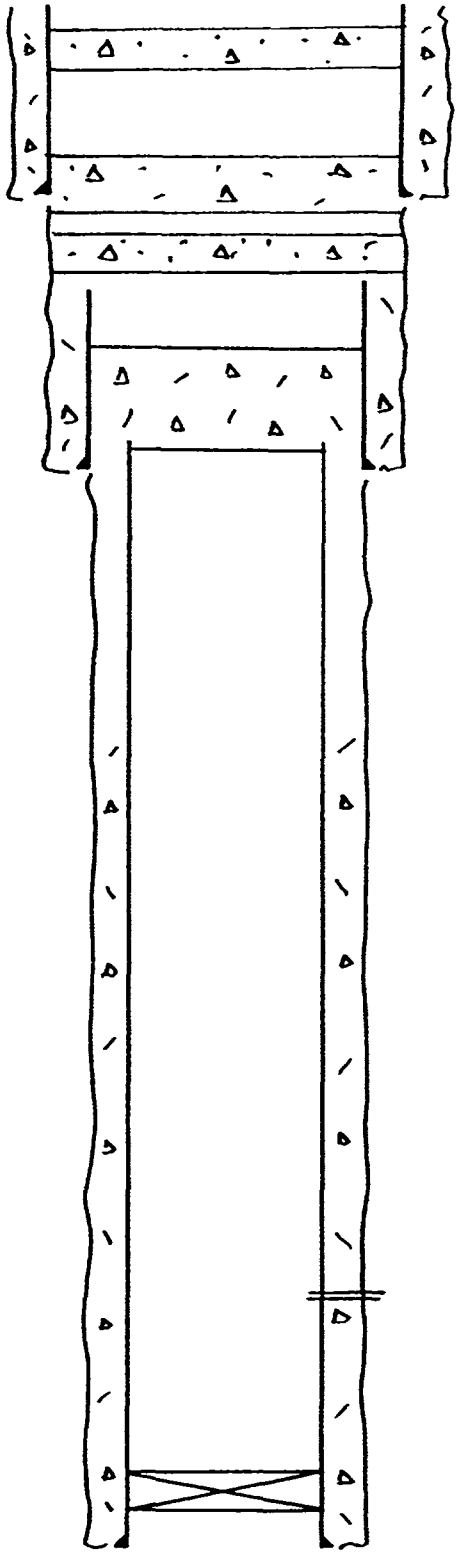
TD = 9456'

KEVIN OLSON 8/01

STATE BTI #2 12S-33E LEA, NM 3L 01030

P&A

SPUD: 8/18/51
LAST: 1/25/93
1980'FSL & 1980'FWL



CMT PLUG 0-24'
CMT PLUG 250-350'

13 3/8" @ 299'
225 SX

CMT PLUG 465-565'

CMT PLUG 3165-3265'

8 5/8" @ 3795'
1500 SX

DST #1	8985-9055'	57 BPH - OIL
#2	8985-9055'	1300 MCFD
#3	9338-9410'	59 BPH - OIL

CUT 5½" @ 3795'
CUT 8 5/8" @ 518'

PLUG INSIDE 5½" UNSPECIFIED

PENN 9025-45', 9052-60'
500 GAL ACID NP = 268 MBO PR102 TO 1970

5½" @ 9458'
600 SX

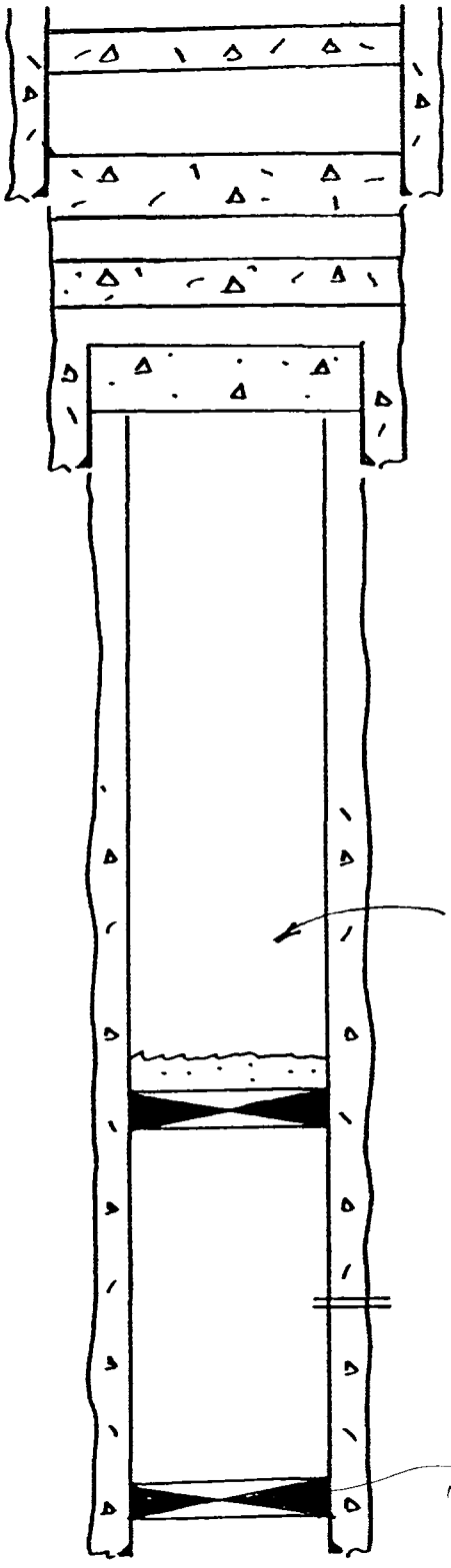
TD = 9458'

KCO 8/01

STATE BTL #1 — 12S-33E LEA, NM — 3 2501031

SPUD: 5/17/51
LAST: 1970's
660' FSL & 660' FEL

P&A



CMT PLUG 10 SX @ SURFACE
CMT PLUG 70 SX @ 350'

13 3/8" @ 300'
225 SX

CMT PLUG 70 SX w/ BASE @ 800'
CMT PLUG 70 SX w/ BASE @ 3000'

8 5/8" @ 3825'
1500 SX

CUT 5 1/2" @ 3000'
CUT 8 5/8" @ 800'

10# BRINE

45' CMT ON TOP
CIBP @ 8950'

DVNN 10840 - 952' 4K ACID
PROD THRU 7/75 Np = 153/M20 + 2578 MBW

5 1/2" @ 10970'
600 SX

TD: 10970'

KLO 8/01

Champion Technologies

Water Analysis Report

1/24/01

Address: 4419 Harlowe

Midland, TX 79703

30253

Customer: Samson Resources Company

Attention: Floyd Steed

Lease: St C A/C1

Formation:

Target Name: St C A/C 1 1 | Sample Point: St C A/C 1 1 | Sample Date: 01/15/2001 | Test Date: 01/23/2001

Water Analysis(mg/L)

Calcium	2165
Magnesium	680
Barium	
Strontium	
Sodium(calc.)	18590
Bicarbonate Alkalinity	1098
Sulfate	2495
Chloride	32000

Appended Data(mg/L)

CO2	290
H2S	0
Iron	0

Physical Properties

Ionic Strength(calc.)	1.08
pH(calc.)	
Temperature(°F)	90
Pressure(psia)	50
Density	8.66

Additional Data

Specific Gravity	1.04
Total Dissolved Solids(Mg/L)	57028
Total Hardness(CaCO3 Eq Mg/L)	8199

Dew Point	
Lead	
Zinc	

Calcite Calculation Information

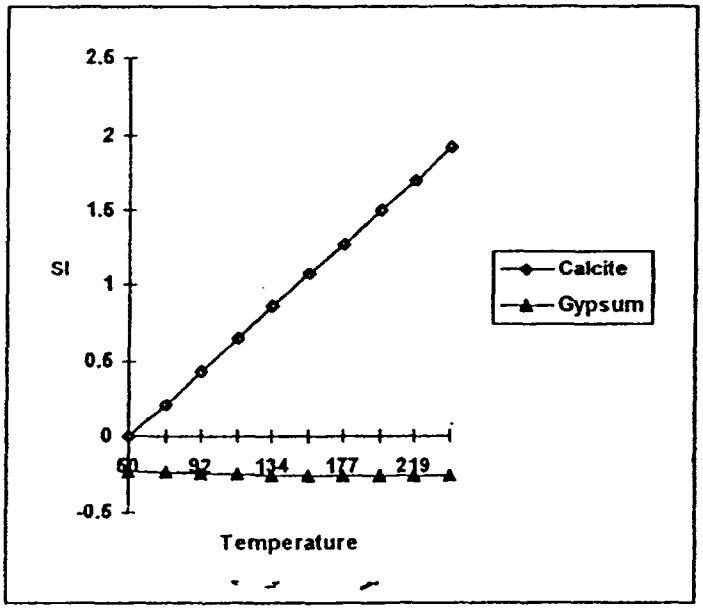
Calculation Method	Value
Known pH	6.90

Remarks:

SI & PTB Results

Scale Type	SI	PTB
Calcite (Calcium Carbonate)	0.41	211.90
Gypsum (Calcium Sulfate)	-0.25	
Hemihydrate (Calcium Sulfate)	-0.23	
Anhydrite (Calcium Sulfate)	-0.43	
Barite (Barium Sulfate)		
Celestite (Strontium Sulfate)		

Saturation Indices



Saturation Index Data Points

	Calcite	Gypsum
50	0.01	-0.23
71	0.22	-0.24
92	0.43	-0.25
113	0.65	-0.25
134	0.86	-0.26
156	1.07	-0.26
177	1.28	-0.26
198	1.50	-0.26
219	1.71	-0.26
240	1.92	-0.26

API # 30-025-01034
Basley Field
Silurd - Devonian Formation
within 1 mile of proposed SWD
Sec 2 T12S - R33E

Champion Technologies

Water Analysis Report

1/24/01

Address: 4419 Harlowe

Midland, TX 79703

Customer: Samson Resources Company

Attention: Floyd Steed

Lease: St C A/C1

Formation:

Target Name: St C A/C 1 2 | Sample Point: St C A/C 1 2 | Sample Date: 01/15/2001 | Test Date: 01/23/2001

Water Analysis(mg/L)

Calcium	2005
Magnesium	535
Barium	
Strontium	
Sodium(calc.)	19006
Bicarbonate Alkalinity	1171
Sulfate	2350
Chloride	32000

Appended Data(mg/L)

CO2	320
H2S	0
Iron	2

Physical Properties

Ionic Strength(calc.)	1.07
pH(calc.)	
Temperature(°F)	90
Pressure(psia)	50
Density	8.66

Additional Data

Specific Gravity	1.04
Total Dissolved Solids(Mg/L)	57067
Total Hardness(CaCO3 Eq Mg/L)	7205

Dew Point	
Lead	
Zinc	

Calcite Calculation Information

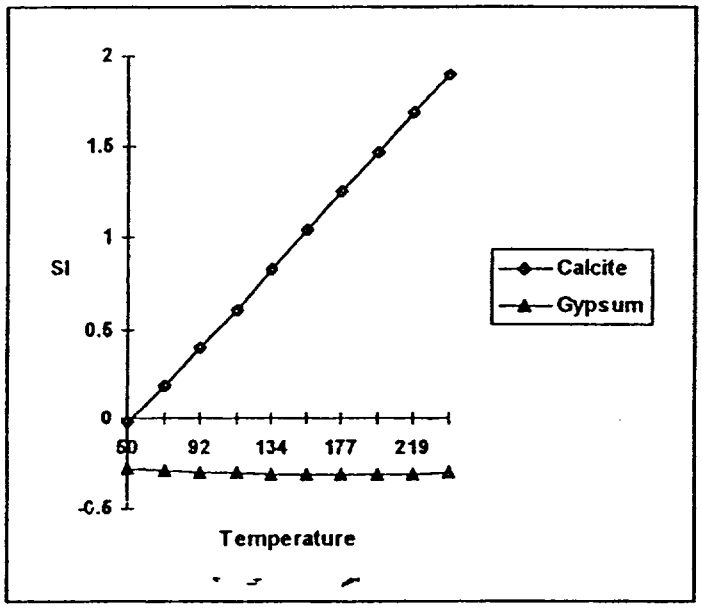
Calculation Method	Value
Known pH	6.87

Remarks:

SI & PTB Results

Scale Type	SI	PTB
Calcite (Calcium Carbonate)	0.38	210.20
Gypsum (Calcium Sulfate)	-0.30	
Hemihydrate (Calcium Sulfate)	-0.28	
Anhydrite (Calcium Sulfate)	-0.48	
Barite (Barium Sulfate)		
Celestite (Strontium Sulfate)		

Saturation Indices



Saturation Index Data Points

	Calcite	Gypsum
50	-0.02	-0.28
71	0.19	-0.29
92	0.40	-0.30
113	0.61	-0.30
134	0.83	-0.31
156	1.04	-0.31
177	1.25	-0.31
198	1.46	-0.31
219	1.68	-0.31
240	1.89	-0.30

API # 30 025 - 01035
Basley Field
Devonian Formation
within 1 mile of proposed well

NOTE: WATER ANALYSIS FROM DEVONIAN FORMATION ON PAGE 2.

Martin Water Laboratories, Inc.

P. O. BOX 1468
MONAHANS, TEXAS 79756
PH. 943-3234 OR 563-1040

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

LABORATORY NO. 701-242
SAMPLE RECEIVED 7/30/01
RESULTS REPORTED 8/7/01

TO: Mr. Mickey Horn
4006 Dunkirk, Midland, Texas 79707

COMPANY Paladin Energy Corporation LEASE As listed
FIELD OR POOL Bagley
SECTION ___ BLOCK ___ SURVEY T-11S-32SR-33E COUNTY Lea STATE NM
SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Produced water - taken from Caudle #2. 7/30/01
NO. 2 Produced water - taken from Mathers "A" #1. 7/30/01
NO. 3 Produced water - taken from Hess State #1. 7/30/01
NO. 4 Produced water - taken from State "C" #1. 7/30/01

REMARKS: Penn.

CHEMICAL AND PHYSICAL PROPERTIES

	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0487	1.1610	1.0062	1.0581
pH When Sampled				
pH When Received	6.10	6.22	6.29	6.29
Bicarbonate as HCO_3	451	159	171	268
Supersaturation as $CaCO_3$	20	20	20	30
Undersaturation as $CaCO_3$	--	--	--	--
Total Hardness as $CaCO_3$	11,400	23,000	1,750	16,000
Calcium as Ca	3,280	3,000	480	4,880
Magnesium as Mg	778	3,767	134	923
Sodium and/or Potassium	24,179	99,856	2,443	24,714
Sulfate as SO_4	504	5,472	108	413
Chloride as Cl	44,730	166,140	4,828	48,990
Iron as Fe	64.5	109	161	7.7
Barium as Ba			0	
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	73,922	278,394	8,163	80,188
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,				
Hydrogen Sulfide	0.0	9.0	0.0	0.0
Resistivity, ohms/m at 77° F.	0.118	0.048	0.690	0.111
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Calcium Carbonate Scaling Tendency	None	None	None	None
Calcium Sulfate Scaling Tendency	None	Severe	None	None

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks

Form No. 3

By ___

P. O. BOX 1468
MONAHANS, TEXAS 79756
PH. 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

TO: Mr. Mickey Horn
4006 Dunkirk, Midland, Texas 79707

LABORATORY NO. 701-242 (page 2)
SAMPLE RECEIVED 7/30/01
RESULTS REPORTED 8/7/01

COMPANY Paladin Energy Corporation LEASE As listed
FIELD OR POOL Bagley
SECTION ___ BLOCK ___ SURVEY T-11&12S&R-33E COUNTY Lea STATE NM
SOURCE OF SAMPLE AND DATE TAKEN:
NO. 1 Produced water - taken from State #34-1. 7/30/01
NO. 2 Produced water - taken from State BTI #1. 7/30/01
NO. 3
NO. 4
REMARKS: 1. Penn. 2. Devonian

CHEMICAL AND PHYSICAL PROPERTIES	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0624	1.0330		
pH When Sampled				
pH When Received	6.15	6.68		
Bicarbonate as HCO_3	281	598		
Supersaturation as $CaCO_3$	20	10		
Undersaturation as $CaCO_3$	--	--		
Total Hardness as $CaCO_3$	17,600	7,600		
Calcium as Ca	5,040	1,680		
Magnesium as Mg	1,215	826		
Sodium and/or Potassium	28,047	14,318		
Sulfate as SO_4	245	2,112		
Chloride as Cl	55,380	25,560		
Iron as Fe	6.4	1.7		
Barium as Ba	0			
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	90,207	45,094		
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,				
Hydrogen Sulfide	0.0	13.0		
Resistivity, ohms/m at 77° F.	0.118	0.179		
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Calcium Carbonate Scaling Tendency	None	None		
Calcium Sulfate Scaling Tendency	None	None		

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks First, we need to mention that the water from Mathers"A" #1 herein does not correlate with what we would expect from a natural Penn. in Lea county. In regard to compatibility between these Penn. waters and the Devonian water, the only condition we find is that the Penn. waters contain some soluble iron whereas the Devonian water contains hydrogen sulfide. Therefore, these waters would be classified as being incompatible as far as mixing on the surface and re-injecting the water. If your intent is to commingle the waters downhole, since we suspect that the presence of iron is the result of corrosion in the well, there is a possibility that the Penn. and Devonian waters could be commingled downhole. However, as previously stated, we would not suggest mixing the Penn. waters and Devonian waters on the surface for re-injection.

Form No. 3

By
Waylan C. Martin, M.A.

c: Debbie Dern, Tulsa, OK - (918-591-1723)

Samson Resources
State BD #3
Sec. 2, T12S, R33E
Lea County, NM
Application for Authorization to Inject

Exhibit G
Geologic Data

	Formation	Lithologic Detail	Top	Bottom
Injection Interval:	Devonian	Lime	11,060	11,400
Underground Sources of Drinking Water:	Santa Rosa		Unknown	Above 1700'
	Dewey Lake		Unknown	Above 1700'

Statement of Examination

I have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

Kevin Olson, District Engineer

2/14/02
Date

Champion Technologies, Inc.

Committed To Improvement

Water Analysis Report

12/10/01

Address: 4419 Harlowe
Midland, TX 79703

Customer: Samson Resources Company
Attention: Floyd Steed
CC:

Lease: State BD
Formation:

Target Name: State West Water Well **Sample Point:** State West Water Well **Sample Date:** 11/25/2001 **Test Date:** 12/06/2001

Water Analysis(mg/L)

Calcium	160
Magnesium	170
Barium	
Strontium	
Sodium(calc.)	909
Bicarbonate Alkalinity	
Sulfate	245
Chloride	2000

Appended Data(mg/L)

CO2	
H2S	
Iron	4

Physical Properties

Ionic Strength(calc.)	0.08
pH(calc.)	
Temperature(°F)	90
Pressure(psia)	50
Density	

Additional Data

Specific Gravity	
Total Dissolved Solids(Mg/L)	
Total Hardness(CaCO3 Eq Mg/L)	1097

Dew Point
Lead
Zinc

Calcite Calculation Information

Calculation Method	Value
CO2 in Brine(mg/L)	

Remarks:

SI & PTB Results

Scale Type	SI	PTB
Calcite (Calcium Carbonate)		
Gypsum (Calcium Sulfate)	-1.86	
Hemihydrate (Calcium Sulfate)	-1.66	
Anhydrite (Calcium Sulfate)	-2.11	
Barite (Barium Sulfate)		
Celestite (Strontium Sulfate)		

Champion Technologies, Inc.

Committed To Improvement

Water Analysis Report

12/10/01

Address: 4419 Harlowe
Midland, TX 79703

Customer: Samson Resources Company
Attention: Floyd Steed
CC:

Lease: State BD
Formation:

Target Name: State East Water Well **Sample Point:** State East Water Well **Sample Date:** 11/25/2001 **Test Date:** 12/06/2001

Water Analysis (mg/L)

Calcium	160
Magnesium	170
Barium	
Strontium	
Sodium(calc.)	2185
Bicarbonate Alkalinity	
Sulfate	200
Chloride	4000

Appended Data (mg/L)

CO2	
H2S	
Iron	3

Physical Properties

Ionic Strength(calc.)	0.13
pH(calc.)	
Temperature(°F)	90
Pressure(psia)	50
Density	

Additional Data

Specific Gravity	
Total Dissolved Solids(Mg/L)	
Total Hardness(CaCO3 Eq Mg/L)	1097

Dew Point	
Lead	
Zinc	

Calcite Calculation Information

Calculation Method	Value
CO2 in Brine(mg/L)	

Remarks:

SI & PTB Results

Scale Type	SI	PTB
Calcite (Calcium Carbonate)		
Gypsum (Calcium Sulfate)	-1.98	
Hemihydrate (Calcium Sulfate)	-1.80	
Anhydrite (Calcium Sulfate)	-2.23	
Barite (Barium Sulfate)		
Celestite (Strontium Sulfate)		

EXHIBIT I

Side I

INJECTION WELL DATA SHEET

OPERATOR: Samson Resources

WELL NAME & NUMBER: State BD #3 API #30-025-01033

WELL LOCATION:	1980' FSL & 660' FEL	I	2	12S	33E
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC

See Attached

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17-1/2" Casing Size: 13-3/8"

Cemented with: 350 sx. *or* _____ ft^3

Top of Cement: Surface Method Determined: Returns

Intermediate Casing

Hole Size: 12-1/4" Casing Size: 9-5/8"

Cemented with: 3700 sx. *or* _____ ft^3

Top of Cement: Surface Method Determined: Returns

Production Casing

Hole Size: 8-1/2" Casing Size: 7"

Cemented with: 2057 sx. *or* _____ ft^3

Top of Cement: 5500' Method Determined: Temp Survey

Total Depth: 11,060'

Injection Interval

Open hole 11,060' feet to 11,370'

(Perforated or Open Hole; indicate which)

Side 2

INJECTION WELL DATA SHEET

Tubing Size: 3-1/2" Lining Material: Plastic or Fiberglass

Type of Packer: Lockset Type

Packer Setting Depth: 11,000'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? _____Yes X No

   If no, for what purpose was the well originally drilled? Oil Production

2. Name of the Injection Formation: Devonian

3. Name of Field or Pool (if applicable): Bagley Field

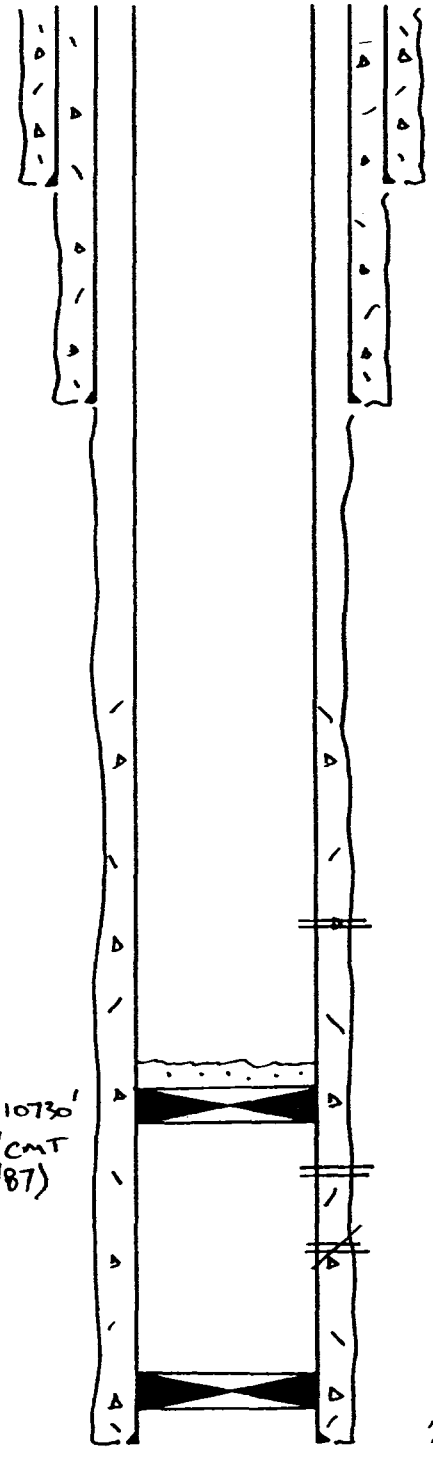
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.
   Devonian perfs 10,780' - 10,957'; CIBP at 10,730' + 17 sx cement January 1987.
   Will squeeze Pennsylvanian 8,967' - 10, 073 & Devonian 10,780' - 10,975'

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
   Devonian 10,780 - 10,957'

STATE BD #3 | LEA CO., NM | 30025 01033

SPUD: 7/29/52
LAST:

CURRENT



13 3/8", 48#, H40 @ 326'
350 SX, CMT RTNS, 450# TEST

9 5/8" 36#, J55 @ 3880'
3700 SX, CMT RTNS, 1200# TEST

DST #1	8875-8981'	35' MUD	(PENN)
#2	8968-9041'	500' GAS CUT MUD	(PENN)
#3	9040-70'	60' MUD	(PENN)
#4	9965-82'	60' MUD	(PENN)

PENN (7/70) 8967, 73, 81; 9017, 18, 47, 49, 51
9053, 56, 58, 60, 62; 9330, 31, 39, 41; 9411,
9437, 41, 55, 61, 67, 76; 9523, 29, 37, 57, 67,
9570, 80, 87; 9681, 89, 93; 9755, 69, 75,
9780, 85, 90; 9883; 9908, 15, 48, 65, 72, 77, 80
10,040, 45, 50, 55, 60, 65, 73
18.5K ACID; PROD w/ CIBP @ 9100' ∅ OUT 12/86

DVNN (12/86) 10780 - 805' w/ 2 SPF
9K 15% REC 86 BW OVER LOAD

DVNN (11/52) 10785 - 957' & 10970 - 75'
@ 6 SPF, 500 GAL q_i = 795 BOPD
SQZ 12/86 w/ 150 SX

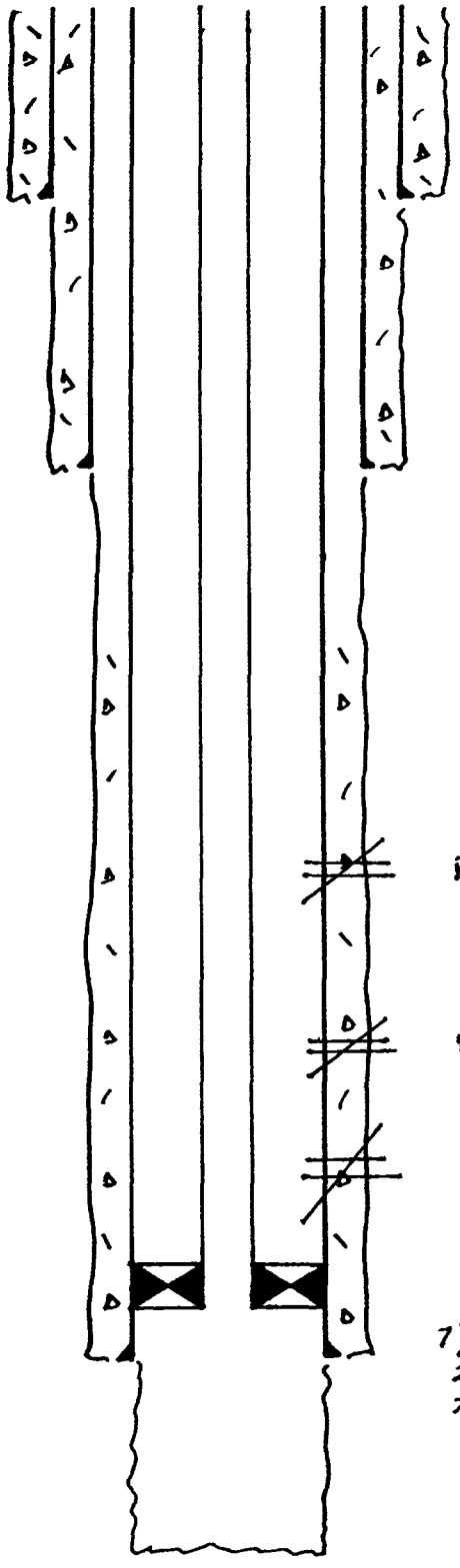
7" 23, 26 & 29#, LTC & KLINE @ 11060'
250 SX, TOC = 10007' (TEMP), PERF 9995-97'
1807 SX, TOC = 5500' (TEMP), 1200# TEST
BTM 2235' = 29#, NEXT 2157' = 26#, NEXT 6621' = 23#
TOP = 29#

KCO 8/01

STATE BD # 3 | LEA CO., NM | 30025 01 033

SPUD: 7/29/52
LAST: _____
BHL: _____

PROPOSED



13 3/8", 48#, H-40 @ 326'
350 SK, CMT RTNS, 1150# TEST

9 5/8", 36#, J55 @ 3880'
3700 SK, CMT RTNS, 1200# TEST

3 1/2", 9.3#, N80, EUE TUBING
IPC OR RICE LINED
LOCKSET PKR @ 11,000'

PENN (7/70) 8967-81', 9017-62', 9330-41'
9411-76', 9523-87', 9681-93', 9755-90',
9883-9980', 10040-73' (56 HOLES)
SQZ w/ 200 SX (PROPOSED)

DVNN (12/86) 10780-805' 2 SPF 9K 15% ACID
SQZ w/ 75 SX (PROPOSED)

DVNN (11/52) 10785-957', 10970-75'
6 SPF, 500 GAL, 8/64 795 BOPD, SI - ILLEGAL LOC
SQZ 12/86 w/ 150 SX

7", 23, 26 & 29#, LTC & XLINE @ 11060'
250 SX. TOC @ 10007', PERF 9995-97', 1807 SK
TOC = 5500'. 1200# TEST

TD = 11400'

KEVIN OLSON 01/02

Samson

Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918 [illegible]
[illegible]

AFFIDAVIT OF MAILING

Ref: API #30-025-01033
Application for authority to inject water into the State BD #3, located in Sec. 2–12S–33E
Lea County, New Mexico.

I, the undersigned (Debbie Bedingfield), do hereby declare that on February 15, 2002, I posted a true copy of the above referenced application in Certified U.S. Mail in sealed envelopes addressed to the following, postage pre-paid:

State of New Mexico
Commissioner of Public Lands
P.O. Box 1148
Santa Fe, NM 87504-1148

Paladin Energy Corporation
10290 Monroe Drive, Suite 301
Dallas, Texas 75229

Debbie Bedingfield
Debbie Bedingfield,
Environmental & Safety Technician

Subscribed and sworn to before me this the 15th day of February, 2002.

Helen Cook
Notary Public

My commission expires 7-5-02.

NOTARY SEAL PUBLIC
HELEN COOK
Tulsa County
Notary Public in and for
State of Oklahoma
My commission expires July 5 2002

DISTRIBUTION:

State of New Mexico
Commissioner of Public Lands
P O Box 1148
Santa Fe, NM 87504-1148

SURFACE OWNER(S)

Paladin Energy Corporation
10290 Monroe Drive, Suite 301
Dallas, Texas 75229

Operator

Samson

Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/583-1791
Fax 918/591-1793

SENT VIA CERTIFIED MAIL

February 15, 2002

State of New Mexico
Commissioner of Public Lands
P O Box 1148
Santa Fe, NM 87504-1148

RE: *Saltwater Disposal Permit Application*
State BD #3
Bagley Field
Lea County, NM

Gentlemen:

Please find enclosed, a revised copy of the C-108 application dated 2/14/02 on the State BD #3, API #30-025-01033, to fulfill the Oil Conservation Division requirements for obtaining a disposal permit for this well.

Interested parties must file objections or requests for hearing with the Oil and Gas Conservation Division, at 1220 South St. Francis Dr., Santa Fe, NM 87505, within 15 days from the date this application was mailed.

Sincerely,

SAMSON RESOURCES COMPANY

Debbie Bedingfield
Environmental & Safety Technician

DB:

Enclosure

Samson

Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/583-1791
Fax 918/591-1796

SENT VIA CERTIFIED MAIL

February 15, 2002

Paladin Energy Corporation
10290 Monroe Drive, Suite 301
Dallas, Texas 75229

RE: Saltwater Disposal Permit Application
State BD #3
Bagley Field
Lea County, NM

Gentlemen:

Please find enclosed, a revised copy of the C-108 application dated 2/14/02 on the State BD #3, API #30-025-01033, to fulfill the Oil Conservation Division requirements for obtaining a disposal permit for this well.

Interested parties must file objections or requests for hearing with the Oil and Gas Conservation Division, at 1220 South St. Francis Dr., Santa Fe, NM 87505, within 15 days from the date this application was mailed.

Sincerely,

SAMSON RESOURCES COMPANY

Debbie Bedingfield
Environmental & Safety Technician

DB:

Enclosure

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, KATHI BEARDEN

Publisher

of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period.

of 1

weeks.

Beginning with the issue dated

February 2 2002

and ending with the issue dated

February 2 2002

Kathi Bearden

Publisher

Sworn and subscribed to before me this 4th day of

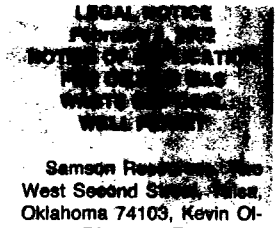
February 2002

Jodi Henson

Notary Public.

My Commission expires
October 18, 2004
(Seal)

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.



Samson Resources, Two West Second Street, Tulsa, Oklahoma 74103, Kevin Olson, District Engineer, phone number (918) 583-1791 is applying to the New Mexico Oil Conservation Division for a permit to dispose of produced salt water or other oil and gas waste by well injection into a porous formation productive of oil or gas.

The applicant proposes to dispose of oil and gas waste into the Devonian formation, State BD Lease, Well Number 3. The proposed disposal well is located 1980' FSL and 660' FEL in Section 2, T12S, R33E, in the Bagley Field in Lea County, NM. The wastewater will be injected into strata in the subsurface depth interval from 11,060 to 11,400 feet. The proposed maximum injection rate is 20,000 barrels per day and the proposed maximum injection pressure is 1,790 psi.

Requests for a public hearing from persons who can show they are adversely affected or requests for further information concerning any aspect of the application should be submitted in writing, within fifteen days of publication, to the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505.
#18725

02105698000 02553311

Samson Companies
Two West Second Street
TULSA, OK 74103

ILLEGIBLE

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. ____ TD ____ PBD ____

Tbng. Dia ____ Tbng Depth ____ Oil String Dia ____

Perf Interval (s) ____

Open Hole Interval ____ Producing Formation(s) ____

RESULTS OF WORKOVER:

Date of Test ____

Oil Production, Bbls. per day ____

Gas Production, Mcf per day ____

Water Production, bbls. per day ____

Gas-Oil Ratio, cu. ft. per bbl. ____

Gas Well Potential, Mcf per day ____

Witnessed by ____

OIL CONSERVATION COMMISSION

Name [signature]

Title Oil & Gas Inspector

Form C-102 ORIGINAL

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

MISCELLANEOUS NOTICES

RECEIVED JAN 3 1950

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF	X	NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	
NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
NOTICE OF INTENTION TO REPAIR WELL		NOTICE OF INTENTION TO PLUG WELL	
NOTICE OF INTENTION TO DEEPEN WELL			

Fort Worth, Texas (Place) December 29, 1949 (Date)

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the

TEXAS PACIFIC COAL AND OIL COMPANY (Company or Operator) New Mexico "B" Ac. 1 (Lease) Well No. 1 in NE/4 of Sec. 2, T. 12-S, R. 33-E, N. M. P. M., Bagley Siluro Devonian Field. Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

To run 7" N-80 casing and set at 10,765' in 560 sacks cement on November 17th and drill plug and test on November 20th.

Approved JAN 3 1950, 19____ except as follows:

OIL CONSERVATION COMMISSION,

By Roy Yarbrough

Title Oil & Gas Inspector

TEXAS PACIFIC COAL AND OIL COMPANY
Company or Operator

By E E Schaffer

Position Agent

Send communications regarding well to

Name R. J. Fleckenstein

Address Box 2110, Fort Worth 1, Texas

NEW MEXICO OIL CONSERVATION COMMISSION

SUNDRY NOTICES AND REPORTS ON WELLS

Texas Pacific Oil Company, Inc.

P. O. Box 4067, Midland, Texas 79701

Unit Letter ___ 660 feet from the South line and 660 feet from

the ___ line, section ___ township 12-S range 33-E NMPM.

15. Elevation (Show whether DF, RT, GR, etc.)

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

NOTICE OF INTENTION TO: | SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐ REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐ COMMENCE DRILLING OPNS. ☐
PULL OR ALTER CASING ☐ CHANGE PLANS ☐ CASING TEST AND CEMENT JOB ☐
OTHER ☐ OTHER

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

1. MIRUPU Pull Tubing and Pump.
2. Set CIBP @ 2950' Cap w/45' Cement.
3. Run Tubing to 2900' circulate w/10# Brine.
4. Cut off 5 1/2" casing @ 3000' Pulled and Layed Down.
5. Run Tubing to 3000' Cement w/70 sx. Top of 5 1/2".
6. Cut off 8 5/8" csg. 800' Pulled & Layed Down.
7. Run Tubing and Spot 70 Sx. Cmt. Plug @ 800', Spot 70 Sx. @ 350'.
8. Cap Well W/10 Sxs., Install Dry Hole Marker.

ILLEGIBLE

RECEIVED OCT 25 19__ CONSERVATION

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED L. A. Wright TITLE Area Superintendent

APPROVED BY [signature] TITLE

CONDITIONS OF APPROVAL, IF ANY:

ILLEGIBLE

NEW MEXICO OIL CONSERVATION COMMISSION

NO. OF COPIES RECEIVED		
DISTRIBUTION		
SANTA FE		
FILE		
U.S.G.S.		
LAND OFFICE		
OPERATOR		

Form C-103
Supersedes Old C-102 and C-103
Effective 1-1-65

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 —" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL [X] GAS WELL [ ] OTHER-

2. Name of Operator
Amerada Hess Corporation

3. Address of Operator
1209 South Main , Lovington, New Mexico

4. Location of Well
UNIT LETTER G , 1980' FEET FROM THE North LINE AND 1980' FEET FROM THE East LINE, SECTION 2 TOWNSHIP 12-S RANGE 33-E NMPM.

5. Lease Designation and Serial No.
[illegible]

6. If Indian, Allottee or Tribe Name
[illegible]

7. Unit Agreement Name

8. Farm or Lease Name
State BT"A"

9. Well No.
2

10. Field and Pool, or Wildcat
Bagley-Penn [illegible]

11. Elevation (Show whether DF, RT, GR, etc.)
4249' D.F.

12. County
Lea.

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK [ ]	PLUG AND ABANDON [ ]	REMEDIAL WORK [ ]	ALTERING CASING [ ]
TEMPORARILY ABANDON [ ]		COMMENCE DRILLING OPNS. [ ]	PLUG AND ABANDONMENT [ ]
PULL OR ALTER CASING [ ]	CHANGE PLANS [ ]	CASING TEST AND CEMENT JOB [ ]	
OTHER [ ]		OTHER	

14. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

State BT"A" #2 - Cut 5-1/2" Csg. @ 3636' and spot 35 sack plug through 2-3/8" tubing 3650' to 3550'. Spot 10 sack plug 0' - 40' in 7-5/8" Csg. and installed Dry Hole Marker and cleaned location. Csg. was loaded with Salt-Water Mud.
Work completed 1-30-73

RECEIVED
AUG - 9 1973
OIL CONSERVATION COMM.
Santa Fe

15. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED [signature] TITLE Area Supt. DATE 3-19-73

APPROVED BY [signature] TITLE Geologist DATE AUG 7

CONDITIONS OF APPROVAL, IF ANY:

ILLEGIBLE

NO. OF COPIES RECEIVED		
DISTRIBUTION		
SANTA FE		
FILE		
U.S.G.S.		
LAND OFFICE		
OPERATOR		

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 14-65

5a. Indicate Type of Lease: State [X] Fee [ ]

5. State Oil & Gas Lease No.: B-10612

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 —" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL [X] GAS WELL [ ] OTHER-

7. Unit Agreement Name:

2. Name of Operator: Amerada Hess Corporation

8. Farm or Lease Name: State BT"I"

3. Address of Operator: 1209 South Main, Lovington, New Mexico

9. Well No.: 2

4. Location of Well: UNIT LETTER K, 1980' FEET FROM THE West LINE AND 1980' FEET FROM THE South LINE, SECTION 2 TOWNSHIP 12-S RANGE 33-E NMPM.

10. Field and Pool, or Wildcat: Bagley-Pennsylvanian

15. Elevation (Show whether DF, RT, GR, etc.): 4252 D.F.

12. County: Lea

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK [ ]	PLUG AND ABANDON [ ]	REMEDIAL WORK [ ]	ALTERING CASING [ ]
TEMPORARILY ABANDON [ ]		COMMENCE DRILLING OPNS. [ ]	PLUG AND ABANDONMENT [X]
PULL OR ALTER CASING [ ]	CHANGE PLANS [ ]	CASING TEST AND CEMENT JOB [ ]	
OTHER [ ]		OTHER [ ]	

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

State BT"I" #2 - Cut 5-1/2" Csg. @ 3195' and spot 35 sack plug through 2-3/8" tubing 3265' to 3165'. Cut 8-5/8" Csg. @ 518' and spot 75 sack plug through 2-3/8" tubing 565' to 465'. Spot 75 sack plug in & out of 13-3/8" Csg. through 2-3/8" tubing 350' to 250'.
Spot 20 sack plug in 13-3/8" from 0' to 24'
Install Dry Hole Marker and Cleaned up Location
Work Completed on 1-25-73
Csg. was loaded with Salt-Water Mud.

RECEIVED
AUG - 9 1973
OIL CONSERVATION COMM.
Santa Fe

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED W. A. Henderson TITLE Area Supt. DATE 3-19-73

APPROVED BY John W. Runyan TITLE Geologist DATE AUG 7 1973

CONDITIONS OF APPROVAL, IF ANY:

ILLEGIBLE

ORIGINAL

Form C-103
Hobbs office copy

NEW MEXICO OIL CONSERVATION COMMISSION
MISCELLANEOUS REPORTS ON WELLS
(Submit to appropriate District Office as per Commission Rule 1106)

COMPANY Amerada Petroleum Corporation - Roswell Star Route - Tatum, New Mexico
(Address)

LEASE State B.T."I" WELL NO. 2 UNIT K S 2 T 12S R 36E

DATE WORK PERFORMED None POOL Bagley Pennsylvanian

This is a Report of: (Check appropriate block)

- ☐ Beginning Drilling Operations
- ☐ Plugging
- ☐ Results of Test of Casing Shut-off
- ☐ Remedial Work
- ☒ Other Temporarily Abandoned

Detailed account of work done, nature and quantity of materials used and results obtained.

9458' Total Depth 9401' Drilled out Depth.
Well closed in and Temporarily Abandoned effective 10-31-57, tubing and casing left in well.
Well closed in until further orders as non-productive.

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____

Tbng. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____

Perf Interval (s) _____

Open Hole Interval _____ Producing Formation (s) _____

RESULTS OF WORKOVER:	BEFORE	AFTER
Date of Test		
Oil Production, bbls. per day		
Gas Production, Mcf per day		
Water Production, bbls. per day		
Gas-Oil Ratio, cu. ft. per bbl.		
Gas Well Potential, Mcf per day		

Witnessed by _____ _____ (Company)

OIL CONSERVATION COMMISSION

Name _____

I hereby certify that the information given above is true and complete to the best of my knowledge.

Submit 3 Copies to Appropriate District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

CONSERV. DIVISION
RECEIVED
94 JUL 18 AM 8 50

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO.
30-025-01032

5. Indicate Type of Lease STATE [X] FEE [ ]

6. State Oil & Gas Lease No.

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" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name
STATE BD

1. Type of Well:
OIL WELL [X] GAS WELL [ ] OTHER

2. Name of Operator
ORYX ENERGY COMPANY

8. Well No.
1

3. Address of Operator
P.O. BOX 2880, DALLAS, TX 75221-2880

9. Pool name or Wildcat
BAGLEY SILURO DEVONIAN

4. Well Location
Unit Letter H : 1980 Feet From The NORTH Line and 660 Feet From The EAST Line
County

Section 2 Township 12S Range 33E NMPM LEA

10. Elevation (*Show whether DF, RKB, RT, GR, etc.*)
4243' D.F.

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK [ ]	PLUG AND ABANDON [ ]	REMEDIAL WORK [ ]	ALTERING CASING [X]
TEMPORARILY ABANDON [ ]	CHANGE PLANS [ ]	COMMENCE DRILLING OPNS. [ ]	PLUG AND ABANDONMENT [ ]
PULL OR ALTER CASING [ ]		CASING TEST AND CEMENT JOB [ ]	
OTHER: [ ]		OTHER: [ ]	

12. Describe Proposed or Completed Operations (*Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work*) SEE RULE 1103.

7-27-93 MIRU. PULL TBG TO 80000 #/20000 # OVER WT
7-28-93 PUMP 220 BBLS FW DOWN ANUL/WORKED TBG 2 HRS. UNABLE TO GET SLIPS OUT/ CUT OFF WELLHEAD/REMOVED SLIPS/TBG CRIMPED @ SLIPS
7-29-93 TBG STUCK @ PUMP. CUT TBG @ 7234'
7-30-93 CUT CABLE @ 7235 POH W/ 1" RODS
7-31-93 UNABLE TO MOVE TBG. TBG 100% STUCK @ 6290' 100% FREE @ 6205'/ CUT TBG @ 6198'
8-3/8-12-93 RIH W/ SPEAR, BS & JARS 2 7/8 WS AND FISH/ REC COPPER WIRE DOWN TO 1' CABLE
8-13-93 CLEAN OUT 6365'-6370'
8-14-93 CLEAN OUT 6370'-6373'/ RIH W 6" OD WO SHOE 1 JT 5 3/4" WP & JARS ON 2 7/8 TBG, WASH OVER CABLE 6373' TO 6374 1/2'
8-17-93 TIH MILL W WO SHOE 6374 1/2 TO 6375 1/2 IN 8 HRS.
8-18-93 RIH W 7" PKR ON 2 7/8" WS & SET @ 6090'/LOAD 7" CSG & COMM TO TBG/RESET PKR @ 5993', LOAD 7" CSG & TEST TO 500#/ SWAB WELL DRY REC 34 BW NO OIL NO GAS
8-19/20-93 RAN SWAB 1 RUN REC 100% WTR./ LEFT WELL TA

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Peggy Snyder TITLE PRORATION ANALYST DATE 08-30-93

TYPE OR PRINT NAME PEGGY SNYDER TELEPHONE NO. 214-715-3233

(This space for State Use)

APPROVED BY Jerry Sexton TITLE DISTRICT 1 SUPERVISOR DATE JUL 14 1994

CONDITIONS OF APPROVAL, IF ANY:

Submit 3 Copies to Appropriate District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

OIL CONSERVATION DIVISION RECEIVED
91 OCT 1 AM 10 58

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO. 30-025-01025

5. Indicate Type of Lease STATE [X] FEE [ ]

6. State Oil & Gas Lease No. B9950

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" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name: STATE BTA

1. Type of Well: OIL WELL [X] GAS WELL [ ] OTHER CI

2. Name of Operator: AMERADA HESS CORPORATION

8. Well No. 1

3. Address of Operator: DRAWER D, MONUMENT, NEW MEXICO 88265

9. Pool name or Wildcat: BAGLEY SILURO DEVONIAN

4. Well Location
Unit Letter J : 1980 Feet From The SOUTH Line and 1980 Feet From The EAST Line

Section 2 Township 12S Range 33E NMPM LEA County

10. Elevation (Show whether DF, RKB, RT, GR, etc.) 4224' GR

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	[ ]	PLUG AND ABANDON	[ ]	REMEDIAL WORK	[ ]	ALTERING CASING	[ ]
TEMPORARILY ABANDON	[ ]	CHANGE PLANS	[ ]	COMMENCE DRILLING OPNS.	[ ]	PLUG AND ABANDONMENT	[ ]
PULL OR ALTER CASING	[ ]			CASING TEST AND CEMENT JOB	[ ]		
OTHER:	[ ]			OTHER: RAN PIPE RECOVERY LOG & FREE POINT	[X]		

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

9/13 THRU 9/16/91

RU ATLAS WIRELINE & RAN PIPE RECOVERY LOG, GR & CCL FR. 5,198' - 5,600'. MIRU DA & S OILWELL SVC. PULLING UNIT & REMOVED WELLHEAD. SET HYD. JACKS & WELDED ON 5-1/2" LIFT NIPPLE. PULLED 130,000# & REMOVED 5-1/2" CSG. SLIPS. RU JARRELL SVC. & RAN FREE POINT FR. 2,016 - 3,480'. FOUND 5-1/2" CSG. 100% STUCK AT 3,480'. RD JARREL SVC. RE-SET 5-1/2" CSG. SLIPS, REMOVE HYD. JACKS & INSTALLED WELLHEAD. RDPU & CLEANED LOCATION. WELL CI FOR EVALUATION.

NOTE: PLEASE CANCEL C-101 AS SUBMITTED FOR APPROVAL ON 9/10/91

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE R. L. Wheeler, Jr. TITLE SUPV. ADM. SVC. DATE SEPT. 24, 1991

TYPE OR PRINT NAME R. L. WHEELR, JR. TELEPHONE NO. 393-0087

(This space for State Use)

APPROVED BY Jerry Sexton TITLE DISTRICT 1 SUPERVISOR DATE SEP 27 1991

CONDITIONS OF APPROVAL, IF ANY:

Submit to Appropriate
District Office
State Lease – 6 copies
Fee Lease – 5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERV N DIVISION
RE
'91 SEP 16 AM 10 03

API NO. (assigned by OCD on New Wells)
30-025-01025

5. Indicate Type of Lease STATE [X] FEE [ ]

6. State Oil & Gas Lease No.
B9950

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work: SIDETRACK AROUND COLLAPSED CASING.
DRILL [ ] RE-ENTER [X] DEEPEN [ ] PLUG BACK [ ]

b. Type of Well:
OIL WELL [X] GAS WELL [ ] OTHER SINGLE ZONE [X] MULTIPLE ZONE [ ]

7. Lease Name or Unit Agreement Name
STATE BTA

2. Name of Operator
AMERADA HESS CORPORATION

8. Well No.
1

3. Address of Operator
P. O. BOX 2040 TULSA, OKLA. 74102

9. Pool name or Wildcat
BAGLEY SILURO DEVONIAN

4. Well Location
Unit Letter J : 1980 Feet From The SOUTH Line and 1980' Feet From The EAST Line

Section 2 Township ~~12N~~ 12 S Range 33E NMPM LEA County

10. Proposed Depth	11. Formation	12. Rotary or C.T.
10,735	DEVONIAN	ROTARY

13. Elevations (Show whether DF, RT, GR, etc.)	14. Kind & Status Plug. Bond	15. Drilling Contractor	16. Approx. Date Work will start
4224 GR	BLANKET, CURRENT	UNKNOWN	SEPTEMBER 20,

17. PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
-	8-5/8	32#	2920	1500	SURFACE
7-3/4	5-1/2	17#	10,735	878	3900

AMERADA HESS CORPORATION PROPOSES TO RE-ENTER THIS WELL, CUT & PULL EXISTING 5-1/2" CASING @ ±5100'. SET KICK OFF PLUG AND SIDETRACK AROUND COLLAPSED CASING. DRILL 7-3/4" HOLE TO 10,735'±, LOG AND RUN 5-1/2" PRODUCTION CASING AND COMPLETE IN THE DEVONIAN FORMATION.

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. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Joe R. Wilson TITLE SUPERVISOR, DRLG ADMIN. SV DATE 9-10-91

TYPE OR PRINT NAME J. R. WILSON TELEPHONE NO. 918-599-4226

(This space for State Use)

APPROVED BY Jerry Sexton TITLE DISTRICT 1 SUPERVISOR DATE SEP 12 1991

CONDITIONS OF APPROVAL, IF ANY:

Submit 3 Copies to Appropriate District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO.
30-025-01025

5. Indicate Type of Lease STATE [X] FEE [ ]

6. State Oil & Gas Lease No.
B9950

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" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name
STATE BTA

1. Type of Well:
OIL WELL [X] GAS WELL [ ] OTHER

2. Name of Operator
AMERADA HESS CORPORATION

8. Well No.
1

3. Address of Operator
DRAWER D, MONUMENT, NEW MEXICO 88265

9. Pool name or Wildcat
BAGLEY SILURO DEVONIAN

4. Well Location
Unit Letter J : 1980 Feet From The SOUTH Line and 1980 Feet From The EAST Line

Section 2 Township 12S Range 33E NMPM LEA County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)
4224' GR

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK [ ]	PLUG AND ABANDON [ ]	REMEDIAL WORK [ ]	ALTERING CASING [ ]
TEMPORARILY ABANDON [ ]	CHANGE PLANS [ ]	COMMENCE DRILLING OPNS. [ ]	PLUG AND ABANDONMENT [ ]
PULL OR ALTER CASING [ ]		CASING TEST AND CEMENT JOB [X]	
OTHER: [ ]		OTHER: Repaired Csg. leak [ ]	

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

5/14 THRU 6/04/91

RU PULLING UNIT & PULLED SUCKER RODS & PUMPING EQUIPMENT. RAN 4-3/4" BIT, ROTATED THROUGH BAD CSG. FR. 5245' - 5423'. FINISHED TIH W/BIT TO 10,753' F/47' FILL. CLEANED OUT FILL W/CAVINS HYDROSTATIC BAILER. RAN A HALLIBURTON RBP AND PACKER, SET RBP @ 9,629' AND CAPPED PLUG W/3 SX. SAND FOR 21'. TESTED 5-1/2" CSG. FOUND LEAK BETWEEN 5,392' - 5452' (60'). ACIDIZED LEAK W/ 210 GALS. 15% NEFE HCL. SWABBED BACK ACID AND CEMENT. SQUEEZED LEAK W/50 SX. CLASS C NEAT CEMENT. DRLD. OUT CEMENT, SQUEEZE JOB LEAKED. FOUND CSG. COLLAPSED. MILLED FR. 5,425' - 5,490' (65') W/REVERSE DRLG. EQUIP., FAILED TO WORK TOOLS BACK INSIDE 5-1/2" CSG. SET CEMENT RETAINER @ 5,213', RESQUEEZE LEAK IN 5-1/2" CSG. W/200 SX. CLASS C NEAT CEMENT. SQUEEZED 170 SX. INTO FORMATION, LEFT 20 SX. BELOW RETAINER AND LEFT 5 SX. ON RETAINER. REVERSE OUT 5 SX. LAYED DOWN RENTAL TBG. AND LAYED DOWN RODS & PROD. TBG. INSTALLED WELL HEAD. FLANGE & CLOSED WELL IN FOR EVALUATION. LEFT 5-1/2" CSG. FULL W/PROD. WATER.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE R. L. Wheeler Jr. TITLE SUPV. ADM. SVC. DATE 6/07/91

TYPE OR PRINT NAME R. L. WHEELER, JR. TELEPHONE NO. 393-2144

(This space for State Use)

APPROVED BY Jerry Sexton TITLE DISTRICT I SUPERVISOR DATE JUN 11 1991

CONDITIONS OF APPROVAL, IF ANY:

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT II
Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL API NO.
30-025-01025

5. Indicate Type of Lease STATE [X] FEE [ ]

6. State Oil & Gas Lease No.
B9950

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" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name
STATE BTA

1. Type of Well: OIL WELL [X] GAS WELL [ ] OTHER

2. Name of Operator
AMERADA HESS CORPORATION

8. Well No.
1

3. Address of Operator
DRAWER D, MONUMENT, NEW MEXICO 88265

9. Pool name or Wildcat
BAGLEY SILURO DEVONIAN

4. Well Location
Unit Letter J : 1980 Feet From The SOUTH Line and 1980 Feet From The EAST Line

Section 2 Township 12S Range 33E NMPM LEA County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)
4224' GR

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	[ ]	PLUG AND ABANDON	[ ]	REMEDIAL WORK	[ ]	ALTERING CASING	[ ]
TEMPORARILY ABANDON	[ ]	CHANGE PLANS	[ ]	COMMENCE DRILLING OPNS.	[ ]	PLUG AND ABANDONMENT	[ ]
PULL OR ALTER CASING	[ ]			CASING TEST AND CEMENT JOB	[ ]		
OTHER: CEMENT SQUEEZE	[X]			OTHER:			[ ]

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

PLAN TO MIRU PULLING UNIT & TOH W/RODS & PUMP. INSTALL BOP & TOH W/TBG. TIH W/4-3/4" BIT TO 10,800' & TOH. TIH W/5-1/2" RBP & PKR. SET RBP AT ±9620' & TEST TO 3000#. SPOT 3 SKS. SAND ON RBP. LOAD CASING & PRESS. TEST TO 1000#. IF CSG. DOES NOT HOLD, LOCATE CSG. LEAK & CEMENT SQUEEZE AS DETERMINED BY INJ. TEST. DRILL OUT RETAINER & TEST SQUEEZE CIRC. SAND OFF RBP, RELEASE PLUG & TOH. TIH W/PKR. SET AT ±10,700', TEST TBG. TO 3500# & CSG. TO 500#. ACIDIZE DEVONIAN ZONE 5-1/2" CSG. PERF. FR. 10,752'-10,775' W/2000 GALS. 15% NEFE HCL ACID. SWAB LOAD & EVALUATE PRODUCTION POTENTIAL.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE R L Wheeler Jr. TITLE SUPV. ADM. SVC. DATE 5/10/91

TYPE OR PRINT NAME R. L. WHEELER, JR. TELEPHONE NO. 393-2144

(This space for State Use)

APPROVED BY Jerry Sexton TITLE DISTRICT I SUPERVISOR DATE MAY 13 1991

CONDITIONS OF APPROVAL, IF ANY:

3:15 P.M. for 1/4 hr. BUP. Recovered 705' salt water, 130' drlg. mud. Howco. Hydro. in 2000# out 2000#, Min. Flow pressure 300# Final flow pressure 300#, 1/4 Hr. BUP. 1200#. Amerada Hydro. in 1900# out 1850#, Min. Flow pressure 80#, Final flow pressure 300#, 1/4 hr. BUP. 1200#

1-24-49 DST. #3 From 7037' to 7092' Packer set at 7037' W/5/8" Bottom & 1" Top choke. Perforations 7066' to 7089'. Tool opened at 3:20 P.M. with very faint blow of air which gradually decreased and quit blowing at 3:48 P.M. Tool setopen 1 hr. after blow stopped. Closed tool at 4:48 P.M. for 1/4 hr. BUP. Packer pulled loose at 5:05 P.M. Recovered 280' drlg. mud, No oil, water or gas. Howco Hyrdo in 4070# out 4070#, Flow pressure 0# to 200# 1/4 Hr. BUP. 0#. Amerada Hydro. in 3915# out 3935#.Flow pressure 0# to 185#, 1/4 Hr. BUP. 0#

3-1-49 DST. #4 From 8992' to 9172' Packers set at 8984' & 8992'. Perforations. 9156' to 9168' W/5/8" Bottom & 1" Top Choke. Tool opened at 7:00 A.M. had few bubbles air & closed tool in 15 mins. & reopened tool & Tested packers. First time tool was not open, opened tool at 7:20 A.M. Gas up in in 5 mins., mud in 8 mins. Oil in 25 mins. Turned to tanks at 7:45 A.M. not making much oil, Gas estimated at 2,000 cu. ft. per day. Tool closed at 11:45 A.M. Made 256.59 bbls. fluid. Gas Volume 2,610,000 cu. ft. gas GFR. 1695Gty. 46.3 corrected. Recovered 44.16 bbls. fluid 30% salt water, broke down tool and recovered 15 stands oil, 5 stsnds salt water, Howco Hydro. in 5325# out 5300#, Flow pressure 3280#, no build up. Amerada Hydro. in 5440# out 5330#, Min. Flow 2860#, Max. flow 3240# 1/4 Hr. BUP 3350#

3-3-49 DST. #5 9056' to 9172' Packers set at 9048' & 9056' W/5/8" Bottom & 1" Top Choke. Perforations 9136' to 9169' tool opened at 7:45 A.M. Good blow ofa air immediately, that decreased to faint blow and continued through out 4 hr. test. Closed tool at 11:45 A.M. Pulled packer loose at 12 noon. Recovered 1950' dry pipe, 270' drlg. mud. cut with salt water, 6952' of salt water, With no show of oil . Howco hydro. in 5375# out 5250# Flow pressure 2700# to 3300# No Build up. Amerada Hydro. in 5380# out 5320#, Flow pressure 2110# to 3230# No build up.

3-11-49 DST #6 From 9585' to 9646' Packers at 9581' & 9585'. W/5/8" Bottom & 1" Top Choke. Perforations 9586' to 9587' & 9611' to 9622' Tool opened at 2:32 A.M. had good blow air for 10 minutes that gradually decreased to 3 bubbles per min. and at end of 4 hr. test. Closed tool at 6:32 A.M. for 1/4 hr. Build up. Recovered 120' drlg. mud no lil or water. Howco Hydro. in 5875# out 5300#, Flow pressure 0# to 80# no build up pressure. Amerada Hydro. in 5360#, out 5360#, flow pressure 30# to 95# no build up.

4-14-49 DST. #7. From 10740' to 10769' Packers set at 10732' & 10740' W/5/8" bottom & 1" Top Choke. with 2222' water blanket. Tool opened at 5:30 A.M. had short ~~period of~~ blow of air for 5 mins. Reopened tool at 7:30 A.M. no blow, Closed tool at 7:35 A.M. for 1/4 hr. BUP. recovered 2222' Water Blanket with rainbow of oil, 20' drlg. mud, gas cut & very slightly oil cut, no formation water. Howco. Hydro. in 5700# out 5700# Flwo preesure 1000# no Build up. Amerada Hydro. in 5800# out 5835# Flow pressure 1145# no BUP.

Report on Drill Stem Tests

State BTA Well #1

4-16-49 DST. #8 From 10770' to 10794' Packers set at 10762' & 10770', W/5/8" bottom & 1" Top Choke. Perforations 10771' to 10778'. with 2300' Water Blanket. Tool open at 2:07 P.M. with fair blow of air for 38 minutes & died. Tool open 1 hr. & 38 mins. Closed at 3:45 P.M. for 1/4 Hr. BUP. Recovered 210' free oil, Gravity 45.7, 2300' Water Blanket, oil & gas cut, 90' Drlg. mud, oil & gas cut. Oil on top of water blanket & mud below. Howco. Hydro. in 5850# otu 5700# Flow pressure 1050#, 1/4 Hr. Build up pressure 2700#. Amerada Hydro. in 5800# out 5750#, Flow pressure 1040#, 1/4 hr. BUP. 2760#.

4-17-49 DST. #9 From 10794' to 10819' With 2 - 6½" O.D. Packers set at 10786' & 10794'. With safety joint & circulating sub. 5/8" Bottom & 1" Top Choke Perforations 10795' to 10812' With 2300' water blanket. Tool open at 5:16 P.M. with fair blow of air , mud up in 20 minutes, oil up in 40 mi ns Switcher to tanks at 6:00 P.M. made 335.12 bbls. oil, 3/10% B.S. in 4 hrs. & 20 minutes. Travity 46.4 Gas volume 58,394 cu. ft. per day. GOR 31. Drill pipe pressure 225#, Closed tool at 10:20 P.M. from 10:20 to 11:20 P.M. bled off 19.32 bbls. Left tool closed for 25 minutes, Build up. Tool open total of 5 hrs. & 5 minutes, Pulled packer loose @ 11:20 P.M. Tried to break circulating sub. with 2900# & failed. Pulled 4 stands drill pipe, tried again with 2900# .Recovered 9770' Free Oil, 690' Fresh water, Will not color coin, and hasn't any taste of salt. Howco. Hydro. in 5900# out 5700# Min. Flow 3900# Max. flow 4150#, 1/4 Hr. BUP. failed. Amerada Hydro. in 5840# out 5780#, Min. Flow 3275#, Max. flow 4230#, 1/4 hr. BUP. failed.

4-19-49 DST. #10 From 10819' to 10839' With 2 packers set at 10811' & 10819' W/5/8" Bottom & 1" Top Choke. Perforations 10820' to 10833' with 2300' Water Blanket. Toolopened at 1:40 P.M. Good blow of air immediately , mud in 25 mins. water in 26 mins., oil in 35 mins. Made 280.83 bbls. in 4 hrs. Gravity 46.2 Gas volume 42,506 cu ft. per day. GOR 25.3 Separator pressure 13#, Drill pipe pressure 25# Closed tool at 6:15 P.M. for 1/4 Hr. BUP. Recovered 9530' oil, 540' Water & 720' mud. Howco. Hydro in 5400# out 5400#, Initial flow pressure 2400# Final flow Pressure 4000# 1/4 hr. BUP. 4225# Amerada Hydro. in 5760# out 5860# Initial flow press. 2140# Final Flow pressure 3920#, 1/4 Hr. BUP. Failed.

4-21-49 DST. #11 From 10840 to 10889' W/2 packers set at 10832' & 10840' W/5/8" Bo & 1" Top Choke. Perforations 10841-42' & 10873' to 10886' W/2390' Water Blanket, Circulating Sub & Safety joint, Tool opened at 6:30 A.M. with strong blow of air, mud up in 2 hrs. water in 2 hrs & 5 mins. Oil in 2 hrs & 45 Mins. Turned to tanks @ 9:15 A.M. Made 67.62 bbls. oil, Gas Vol. 3,022 cu. ft. per day, GOR 7.3, Gty. 45.9 corrected, no seperator or drill pipe pressure, just enough gas to dump separator, closed tool @ 1:15 P.M. for ¼ hr. BUP. Tried to shear pin in circulation Sub. no results, pulled 25 stands full of oil, 2250' oil, Sheared pin in circulating Sub with between 1600# & 1800# pump pressure, displaced oil in drill pipe. Recovered 49.02 bbls. oil, 4/10% BS, no water and approximately 4 bbls. into pits, which was mud cut, 210' Oil & Gas cut drlg. mud. no water, which was below circulating sub. Howco Hydro in and out 5800#, Min. Flow 1150#, Max Flow press. 3800#, ¼ hr. BUP. 4025# Amerada Hydro. in and out 5610', Min. Flow 1095#, Max. Flow 3855#, ¼ hr. BUP. did not record clock ran out.

5-25-49 DST. #12, From 11200' to 11225' W/2-7/8" Drill pipe, 55 min. Test. with circulating sub and safety joint. 1-4¼" Howco Hookwall packer set at 11185' W/3/8" bottom & 1" Top Choke, perforations 11188' to 11212' with

4-17-49 DST. #7 From 10794' to 10812' With safety joint & circulating sub. 5/8" Bottom & 1" Top Choke Perforations 10795' to 10812' With 2300' water blanket. Tool open at 5:16 P.M. with fair blow of air , mud up in 20 minutes, oil up in 40 mi ns. Switcher to tanks at 6:00 P.M. made 335.12 bbls. oil, 3/10% B.S. in 4 hrs. & 20 minutes. Travity 46.4 Gas volume 58,394 cu. ft. per day. GOR 31. Drill pipe pressure 225#, Closed tool at 10:20 P.M. from 10:20 to 11:20 P.M. bled off 19.32 bbls. Left tool closed for 25 minutes, Build up. Tool open total of 5 hrs. & 5 minutes, Pulled packer loose @ 11:20 P.M. Tried to break circulating sub. with 2900# & failed. Pulled 4 stands drill pipe, tried again with 2900# .Recovered 9770' Free Oil, 690' Fresh water, Will not color coin, and hasn't any taste of salt. Howco. Hydro. in 5900# out 5700# Min. Flow 3900# Max. flow 4150#, 1/4 Hr. BUP. failed. Amerada Hydro. in 5840# out 5780#, Min. Flow 3275#, Max. flow 4230#, 1/4 hr. BUP. failed.

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4-21-49 DST. #11 From 10840 to 10889' W/2 packers set at 10832' & 10840' W/5/8" Bott. & 1" Top Choke. Perforations 10841-42' & 10873' to 10886' W/2390' Water Blanket, Circulating Sub & Safety joint, Tool opened at 6:30 A.M. with strong blow of air, mud up in 2 hrs. water in 2 hrs & 5 mins. Oil in 2 hrs & 45 Mins. Turned to tanks @ 9:15 A.M. Made 67.62 bbls. oil, Gas Vol. 3,022 cu. ft. per day, GOR 7.3, Gty. 45.9 corrected, no seperator or drill pipe pressure, just enough gas to dump separator, closed tool @ 1:15 P.M. for ¼ hr. BUP. Tried to shear pin in circulation Sub. no results, pulled 25 stands full of oil, 2250' oil, Sheared pin in circulating Sub with between 1600# & 1800# pump pressure, displaced oil in drill pipe. Recovered 49.02 bbls. oil, 4/10% BS, no water and approximately 4 bbls. into pits, which was mud cut, 210' Oil & Gas cut drlg. mud. no water, which was below circulating sub. Howco Hydro in and out 5800#, Min. Flow 1150#, Max Flow press. 3800#, ¼ hr. BUP. 4025# Amerada Hydro. in and out 5610', Min. Flow 1095#, Max. Flow 3855#, ¼ hr. BUP. did not record clock ran out.

5-25-49 DST. #12, From 11200' to 11225' W/2-7/8" Drill pipe, 55 min. Test. with circulating sub and safety joint. 1-4½" Howco Hookwall packer set at 11185' W/3/8" bottom & 1" Top Choke, perforations 11188' to 11212' with 2225' water blanket. Tool open at 3 A.M. with fair blow of air, died in 50 mins. and packer failed at 3:55 A.M. closed tool and recovered 270' drlg. mud and pin in circulating sub broke, lost 2225' water blanket, 1355' of extra fluid, including drlg. mud. Howco Hydro. in 5200# out 5100#, Min. Flow 3400# Max. Flow 4250#, No BUP. Amerada Hydro. in 5275# out 5085# Min. Flow 370#, Max. Flow 1290#

6-21-49 DST #13, From 11469' to 11506', 3 hrs. & 5 mins. test on 3½" D.P. with packers set at 11465' & 11469' W/5/8" bottom & 1" Top Choke, W/Perf. 11470' to 11502' W/3510' Water blanket, tool opened at 1:25 P.M. with small blow air through out test, gradually decreasing to few bubbles at end of 3 hrs. Fluid on outside of D.P. dropped at rate of 1' per. mins. for 2¼ hrs. and stopped, Tool closed at 4:30 P.M. for 1/4 hr. BUP. recovered 5040' dry pipe, 2916' drlg. mud on top of water blanket 3510' water blanket & 40' drlg. mud above tool, Howco Hydro. in and out 5200#, (Howco chart showed tool had not opened) Amerada Hydro. in and out 5240#

State BTA #3
Bagley Field

Devonian Re-completion Procedure
(Open Hole & Perforated Interval)

1. M. I. & R. U. Service rig. N/D tree, N/U BOP's.

2. TIH/W 4-1/2" bit, 6 pcs. 3-1/8" drill collars, and 2-7/8" tubing workstring. Tag cement at 10,655'. Drill out cement and 5-1/2" CIBP at 10,690', out the end of the casing at 10,729'. Continue to clean out open hole section down to 10, 900' (+,-). Circulate hole clean. TOH/W tubing, DC, and bit.

3. TIH with tubing and cementing head. Place cement plug from 10,840' to 10,920'. (+,-). Reverse out cement and circulate tubing clean. TOH with tubing . WOC.

4. TIH with electric wireline, run cased hole log from 10,729' – 8,000'.

5. TIH/w workstring and packer and perform 5000 gal 20% HCL acid job on open hole section from 10,729-10,840'.

6. Rig up swab unit and swab back acid water from the Devonian. Pull up and spot 2% KCL across proposed perforated interval. Pull out of hole with workstring. GIH w/ e-line and perforate the 5-1/2" casing from 10,688-708', 2SPF. TOH with guns and rig down e-line.

7. TIH/w workstring and packer and retrievable bridge plug. Set bridge plug at 10,715' (+,-). Pick up and set packer at 10,550', perform 2500 gal 20% HCL ball sealer acid job on perforated section from 10,688-708'. Unseat packer and retrieve bridge plug. POOH and lay down worksring, packer and retreivable bridge plug. Swab back acid water.

8. Run in hole with submersible pump and tubing. Set pump as per prognosis. Set up variable speed electrical control panel & temporary surface facility.

9. Place well on test at various hertz settings. If test is successful, install permanent facilities and size and re-run sub pump accordingly. Install electrical control panel. Place well on production

Submit 3 Copies to Appropriate District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO.
30-025-31399

5. Indicate Type of Lease STATE [X] FEE [ ]

6. State Oil & Gas Lease No.
B9950

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" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name
State BTA

1. Type of Well: OIL WELL [X] GAS WELL [ ] OTHER

2. Name of Operator
Amerada Hess Corporation

8. Well No.
3

3. Address of Operator
Drawer D, Monument, New Mexico, 88265

9. Pool name or Wildcat
Bagley Siluro-Devonian

4. Well Location
Unit Letter G : 1830 Feet From The North Line and 1980 Feet From The East Line

Section 2 Township 12S Range 33E NMPM Lea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)
4237.3' GR

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	[ ]	PLUG AND ABANDON	[ ]	REMEDIAL WORK	[ ]	ALTERING CASING	[ ]
TEMPORARILY ABANDON	[ ]	CHANGE PLANS	[ ]	COMMENCE DRILLING OPNS.	[ ]	PLUG AND ABANDONMENT	[ ]
PULL OR ALTER CASING	[ ]			CASING TEST AND CEMENT JOB	[ ]		
OTHER:	[ ]			OTHER: Well Completion	[X]		

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

1-7 thru 1-29-92
Graded location & set anchors. MIRU X-Pert Well Svc., removed well head & installed BOP. TIH with 4-3/4" bit & ran bit to 10,257', drld. cement fr. 10,257 - 10,730. Schlumberger ran CET log fr. 10,730' - 9,500' & TOH. Ran 4-3/4" bit & drld. new hole from 10,730' - 10,735' & TOH. TIH w/5-1/2" x 2-7/8" Halliburton RTTS pkr. on 2-7/8" tbg. & set pkr. at 10,599'. Swabbed well fr. 1-16 thru 1-21-92. 1-22-92: TOH w/pkr. TIH w/2-7/8" tbg. set OE at 5021' w/5-1/2" x 2-7/8" Baker TAC at 5018'. Removed BOP & installed well head. TIH w/2-1/2" x 2" RWBC 20 x 4 x HO x 0 pump on rods & spaced out pump. RDPU & cleaned location. 1-25-92: Laid flow line to btry. & set pumping unit & motor. Connected ellectrcal service & began pumping well on 1-29-92.

Test of 2-6-92: Pumped 38 b.o., 510 b.w. & Gas TSTM in 24 hrs. on 10x120" SPM.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE R. L. Wheeler, Jr. TITLE Supv. Adm. Svc. DATE 2-10-92

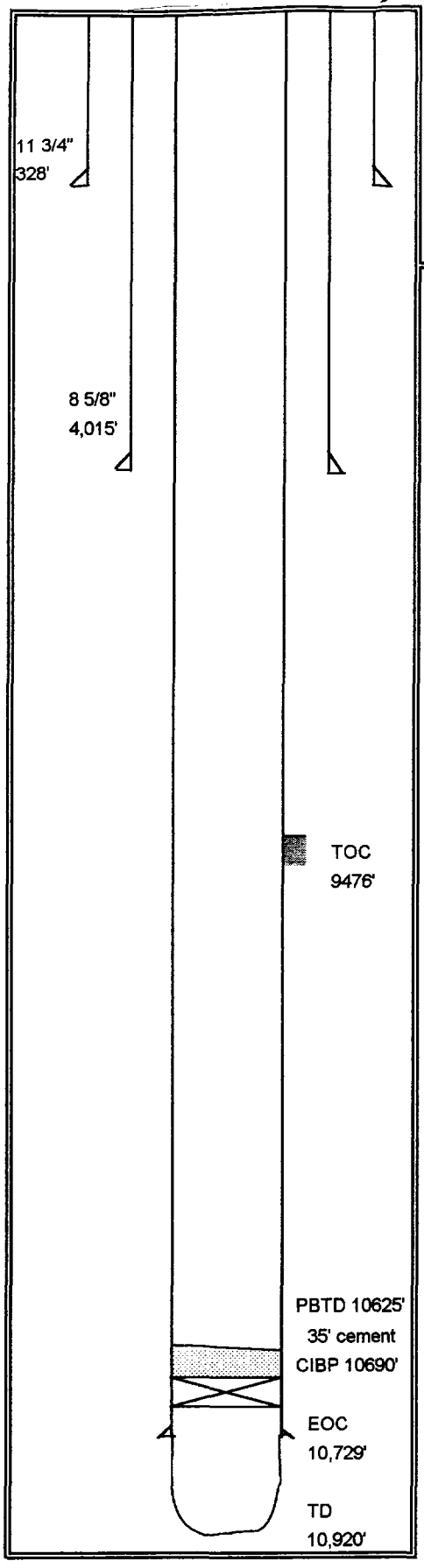
TYPE OR PRINT NAME R. L. Wheeler, Jr. TELEPHONE NO. 505 393-2144

(This space for State Use)

APPROVED BY [signature] TITLE _____ DATE FEB 11 '92

CONDITIONS OF APPROVAL, IF ANY:

WELLBORE SCHEMATIC



Lease: State BTA **Well:** 3 API # 30-025-31399

Field: Bagley County: Lea State New Mexico

Section 2 Township 12-S Range 33-E

Elev . GL 4237' Elev. DF _____ Elev. KB _____

Spudded 12/5/91 Completed 2/3/92

Surface Casing	11-3/4"	42#	Grade	H-40
	Set @	328'	Hole Size	17 1/2"
	TOC	Sur.	Sacks	475
Intermediate Casing	8 5/8" OD	28#/Ft.	Grade	K-55
	Set @	4,015'	Hole Size	12 1/4"
	TOC	Sur	Sacks	
Production Casing	5 1/2" OD	17 & 20#/Ft.	Grade	J-55 (D)
	Set @	10,729'	Hole Size	7 7/8"
	TOC	9,746	Sacks	250
Liner Record	" OD	#/Ft.	Grade	
	Top @		Bottom @	
	Screen		Hole Size	
	TOC		Sacks	
Tubing Detail			Grade/Trd.	
	TAC Set @		EOT	
	Nipples			
	Anchors		Rods	

Perforation Record

Treatment record

Comments:

Date: _____

PROPOSED COMPLETION

Prepared By: _____

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-101
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

[1] Operator Name and Address.	[2] OGRID Number
Collins & Ware, Inc. 508 W. Wall, Suite 1200 Midland, Texas 79701	004874
	[3] API Number 30 - 0 25-31399

[4] Property Code	[5] Property Name	[6] Well No.
19174	State BTA (State Lease No. B9950)	3

[7] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
G	02	12S	33E		1830	North	1980	East	Lea

[8] Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West Line	County

[9] Proposed Pool 1	[10] Proposed Pool 2
(03990) Bagley Siluro-Devonian	

[11] Work Type Code	[12] Well Type Code	[13] Cable/Rotary	[14] Lease Type Code	[15] Ground Level Elevation
D	O	R	S	4237.3' GR
[16] Multiple	**[17] Proposed Depth**	**[18] Formation**	**[19] Contractor**	**[20] Spud Date**
No	10,960	Devonian	Pride Well Serv.	12/09/96

[21] Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2	11 3/4	42#	328	475 sx	Surface
11	8 5/8	24#, 28#	4015	1300 sx	
7 7/8	5 1/2	17#	10,729	250 sx	9746
4 3/4	4	11#	10,960	60 sx	10,525

[22] Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

This well is currently producing from open hole 10,729' - 10,735'. We propose to deepen this well with a 4 3/4" bit from 10,735' - 10,960'. If the zone is not productive, we will TA the well with a CIBP at 10,620'. If the zone is productive, we propose to hang a 4" casing liner across the interval 10,525' - 10,960'.

Permit Expires 1 Year From Approval Date Unless Drilling Underway

BOP: 7 1/16" Dual Ram 3M (Blind & Pipe)

Deepen

[23] I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature: Dianne Sumrall

Printed name: Dianne Sumrall

Title: Production Supervisor

Date: 12/03/96 Phone: (915) 687-3435

OIL CONSERVATION DIVISION

Approved by: David G. Rader

Title: Geologist

Approval Date: DEC 13 1996 Expiration Date:

Conditions of Approval:
Attached ☐

ATTACHMENT TO FORM C-103
COLLINS & WARE, INC.
STATE BTA #3

12/09/96 MIRU Pride Well Service. POH with rods and pump. Well started flowing.

12/11/96 Go in hole with 4¾" skirted mill tooth bit and work from 9000' - 9330'.

12/12/96 Rig up drilling equipment and start drilling at 10,645' and drilled to 10,682'.

12/13/96 Drill from 10,682' - 10,758'. Started drilling open hole at 10,758' and drilled to 10,761' steel line measurement. Run GR/CCL to new PBTD at 10,724'. Bottom of casing at 10,713' with 11' of open hole.

12/14/96 Start drilling new hole at 10,723' and drilled to 10,809'.

12/15/96 Ran DST #1 (10,754' - 10,809')

12/16/96 Finish DST #1 and swab. Had 10% oil cut on last run. RU drilling equipment and start drilling at 10,809'.

12/17/96 Drilled to 10,868' and prep for DST #2. SD for bad weather.

12/20/96 Ran DST #2.

12/22/96 Started swabbing and recovered 173 bbls with no show of gas or oil. RU drilling equipment and break circulation.

12/23/96 Drill from 10,868' to TD at 10,920'.

12/24/96 RU computalog and GIH with 5½" CIBP and set plug at 10,690' with 35' cement plug. This well is now on T/A status.

WRS COMPLETION REPORT

COMPLETIONS SEC 2 TWP 12S RGE 33E
PI# 30-T-0012 02/21/92 30-025-31399-0000 PAGE 1

NMEX LEA * 1830FNL 1980FEL SEC SW NE
STATE COUNTY FOOTAGE SPOT

AMERADA HESS CORP D DO
OPERATOR WELL CLASS INIT FIN

3 STATE BTA
WELL NO. LEASE NAME

4256KB 4237GR BAGLEY
OPER ELEV FIELD POOL AREA

API 30-025-31399-0000
LEASE NO. PERMIT OR WELL I.D. NO.

12/05/1991 02/06/1992 ROTARY VERT OIL
SPUD DATE COMP. DATE TYPE TOOL HOLE TYPE STATUS

10760 SIL-DEV ZIADRIL INC 3 RIG SUB 18
PROJ. DEPTH PROJ. FORM CONTRACTOR

DTD 10735 FM/TD SIL-DEV
DRILLERS T.D. LOG T.D. PLUG BACK TD OLD T.D. FORM T.D.

LOCATION DESCRIPTION

9 MI SE CAPROCK, NM

CASING/LINER DATA

CSG 11 3/4 @ 328 W/ 475 SACKS
CSG 8 5/8 @ 4015 W/ 1300 SACKS
CSG 5 1/2 @10729 W/ 250 SACKS

TUBING DATA

TBG 2 7/8 AT 5021

INITIAL POTENTIAL

IPP 38BOPD 510BW 24HRS
SIL-DEV OPENHOLE 10729-10735
GOR TSTM

GTY-NO DETAILS

TYPE	FORMATION	LTH	TOP DEPTH/SUB	BSE DEPTH/SUB
LOG	WOLFCAMP		8406 -4169	
LOG	PNNSYLVN		8620 -4383	
LOG	CISCO		8920 -4683	
LOG	DEVONIAN		10678 -6441	

SUBSEA MEASUREMENTS FROM GR