DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.
3/2/09		W. Jones	3/2/09	SWD	pKAA0906150998

ABOVE THIS LINE FOR DIVISION USE ONLY 1169

RECEIVED
2009 MAR 2 PM 1 36

30-025-39193
House SWD #001
Apache Corp.
873

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

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,

[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.

Sophie Mackay	Sophie Mackay	Engineering Technician	2/29/2009
Print or Type Name	Signature	Title	Date

sophie.mackay@apachecorp.com
e-mail Address

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 June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance __X__ Disposal _____ Storage
Application qualifies for administrative approval? __X__ Yes _____ No

II. OPERATOR: Apache Corporation (873)

ADDRESS: 6120 S Yale Ave, Suite 1500 Tulsa OK 74136-4224

CONTACT PARTY: Sophie Mackay PHONE: (918)491-4864

III. WELL DATA: Complete the data required on the reverse side of this form for each well processed 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 geological data on the injection zone including appropriate lithologic detail, geological 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.

*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 source 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: Sophie Mackay TITLE: Engineering Tech

SIGNATURE: Sophie Mackay DATE: 02/26/2009

E-MAIL ADDRESS: sophie.mackay@apachecorp.com

* If the information required under Sections VI, VHI, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstance of the earlier submittal: _____

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

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 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, NM 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.

INJECTION WELL DATA SHEET

Tubing Size: 3-1/2" Lining Material: IPC

Type of Packer: 7" Baker Lok-Set

Packer Setting Depth: 4,550'

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

Additional Data

1. Is This a new well drilled for injection? X Yes _____ No

   If no, for what purpose was the well originally drilled? Salt Water Disposal

2. Name of the Injected Formation: San Andres

3. Name of Field or Pool (if applicable): SWD; San Andres

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. NO

   This well has not yet been drilled.

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injected zone in this area: Based on offset wells:

   The next higher zone is the Grayburg @ +/- 3,890'

   This zone is the San Andres @ +/- 4,250'

   The next lower zone is the Blinebry @ +/- 6,023'

Side 1

INJECTION WELL DATA SHEET

OPERATOR: Apache Corporation (873)

WELL NAME & NUMBER: House SWD #1

WELL LOCATION: 990 FSL & 500 FWL | M | 12 | 20S | 38E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC

See Attached Wellbore Schematic

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12-1/4" Casing Size: 9-5/8" @ 1,600'

Cemented wtih: 500 sx. *or* _____ ft^3

Top of Cement: surface Method Determined: circulate

Intermediate Casing

Hole Size: 8-5/8" Casing Size: 7" @ 4,600'

Cemented with: 1200 sx. *or* _____ ft^3

Top of Cement: surface Method Detemined: circulate

Production Casing

Hole Size: 6-1/8" Casing Size: None

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

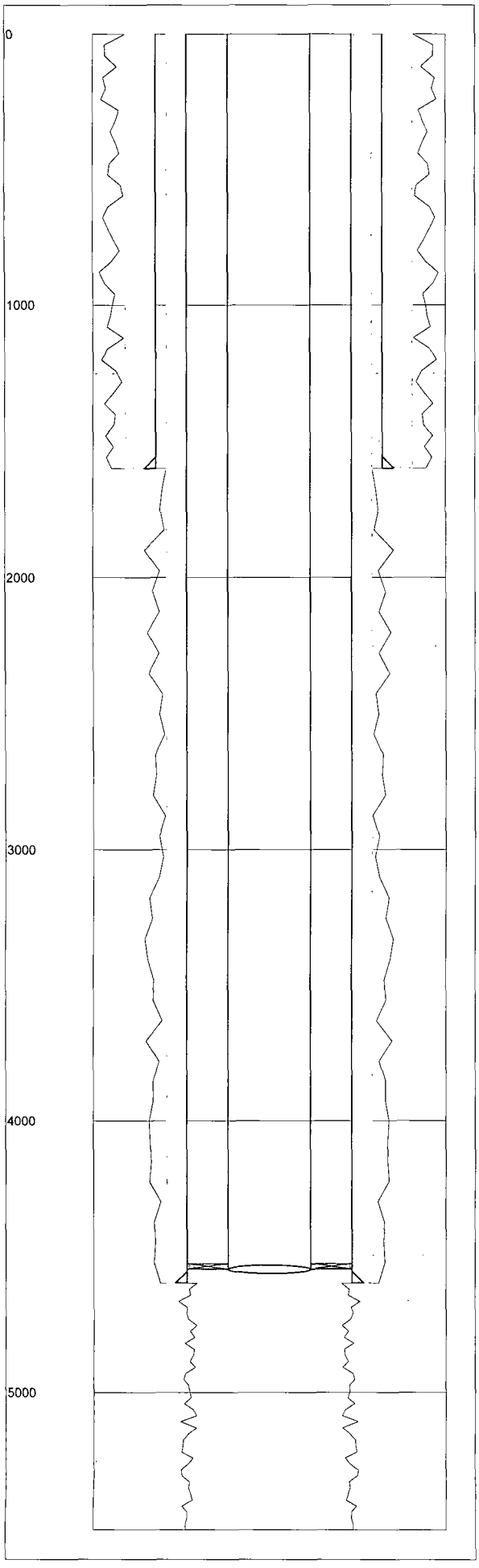
Top of Cement: NA Method Determined: NA

Total Depth: 5,500'

Injection Interval

4,600 feet to 5,500 (Open Hole)

(Peforated or Open Hole; indicated which)



PROPOSED COMPLETION

Last Updated: 11/12/2008 9:50:35 AM

Field Name	Lease Name	Well No.
House	House SWD	1

County	State	API	GL (ft)	KB (ft)
Lea	New Mexico	30-012-39193	3563	0

Sec.	Twp/Blk	Rng/Svy	Footage
M-12	20S	38E	990' FSL & 500' FWL from Section

Spud Date	Comp. Date	Prepared By	Last Updated
		JLF	11/12/2008

Current Status

Open hole complete a San Andres disposal well.

Hole Summary

Date	OD (in)	Top (KB ft)	Bottom (KB ft)	Comments
	12.2500	0	1,600	
	8.7500	1,600	4,600	
	6.1250	4,600	5,500	

Tubular Summary

Date	Description	OD (in)	Wt (lb/ft)	Grade	Top (KB ft)	Bottom (KB ft)
	Surface Casing	9.6250	40.00		0	1,600
	Production Casing	7.0000	26.00		0	4,600
	Tubing	3.5000	9.30		0	4,550

Casing Cement Summary

Date	No. Sx	OD (in)	ID (in)	Top (KB ft)	Bottom (KB ft)
	500	12.2500	9.6250	0	1,600
	1200	8.7500	7.0000	0	4,600

Tools/Problems Summary

Date	Tool Type	OD (in)	ID (in)	Top (KB ft)	Bottom (KB ft)
	Pkr	7.0000	3.5000	4,550	

Cement Plug Summary

Perf Summary

Completion History Summary

Last Updated: 11/12/2008 9:50:35 AM **P R O P O S E D C O M P L E T I O N**

Field Name	Lease Name	Well No.	County	State	API	GL (ft)	KB (ft)
House	House SWD	1	Lea	New Mexico	30-012-39193	3563	0

Sec.	Twp/Blk	Rng/Svy	Footage	Spud Date	Comp. Date	Prepared By	Last Updated
M-12	20S	38E	990' FSL & 500' FWL from Section			JLF	11/12/2008

Current Status

Open hole complete a San Andres disposal well.

Detailed Summaries

Hole Summary

Date	OD (in)	Top (KB ft)	Bottom (KB ft)	Comments
	12.2500	0	1,600	
	8.7500	1,600	4,600	
	6.1250	4,600	5,500	

Tubular Summary

Date	Description	OD (in)	Wt (lb/ft)	Grade	Coupling	Top (KB ft)	Bottom (KB ft)	Comments
	Surface Casing	9.6250	40.00			0	1,600	
	Production Casing	7.0000	26.00			0	4,600	
	Tubing	3.5000	9.30			0	4,550	IPC tubing

Casing Cement Summary

Date	No. Sx	OD (in)	ID (in)	Top (KB ft)	Bottom (KB ft)	Cement Description	Comments
	500	12.2500	9.6250	0	1,600		Circulate cement
	1200	8.7500	7.0000	0	4,600		Circulate cement

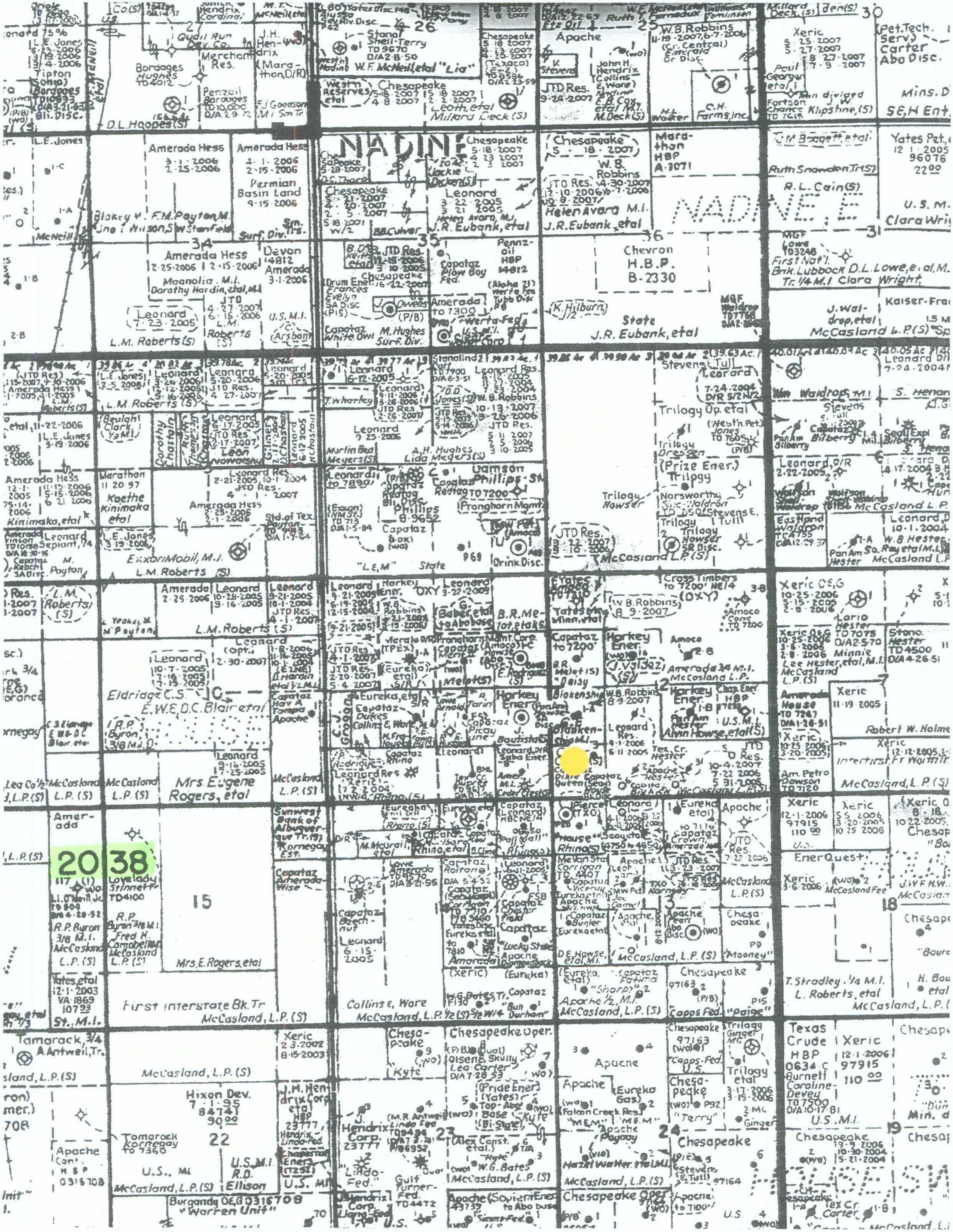
Tools/Problems Summary

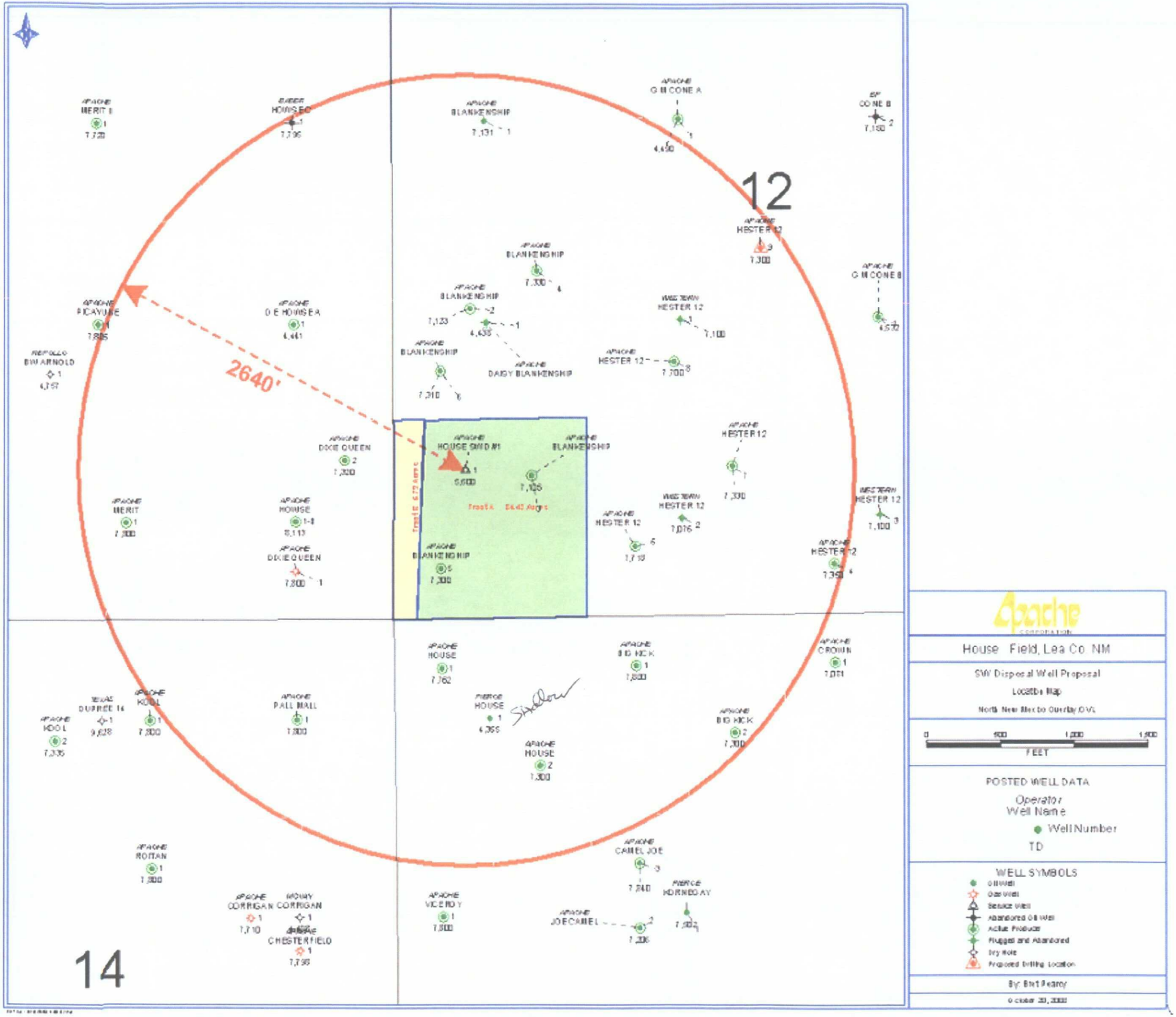
Date	Tool Type	OD (in)	ID (in)	Top (KB ft)	Bottom (KB ft)	Description	Comments
	Pkr	7.0000	3.5000	4,550			

Cement Plug Summary

Perf Summary

Completion History Summary


NADINE
NADINE, E
Chesapeake
Apache
W.B. Robbins
Xeric
W.F. McNeill, etal "Lia"
D.L. Hoopes (S)
Bordages Hughes TD4012
Penzoil Bordages
Amerada Hess 3-1-2006 2-25-2006
Amerada Hess 1-1-2006 2-15-2006
Permian Basin Land 9-15-2006
Marathon HBP A-3071
Yates Pet. 12-1-2005 96076 22.00
Chevron H.B.P. B-2330
State J.R. Eubank, etal
Helen Avara M.I. J.R. Eubank, etal
R.L. Cain (S)
Clara Wright
First Nat'l. Bnk. Lubbock D.L. Lowe, etal
McCasland L.P. (S)
Amerada Hess 2-25-2006 2-15-2006
Magnolia M.I.
Dorothy Hardin, etal, M.I.
Leonard 7-23-2005
L.M. Roberts (S)
Devon 14812 Amerada 3-1-2006
Trilogy Op. etal
(Prize Ener.) Trilogy
ExxonMobil, M.I.
L.M. Roberts (S)
Kaethe Kinimaka etal
"L.E.M." State
Drink Disc.
JTD Res. 3-22-2007
Xeric OE&G 10-25-2006 5-15-2005 2-8-2006
Eldridge C.S.
E.W.E. D.C. Blair etal
Mrs. Eugene Rogers, etal
McCasland L.P. (S)
Harkey Ener.
Xeric 11-19-2005
Robert W. Holme
Am. Petro Dawson TD 7120
Amerada
2038
15
Mrs. E. Rogers, etal
First Interstate Bk. Tr
McCasland, L.P. (S)
Collins & Ware
EnerQuest
Xeric 12-1-2006 97915 110.00
Xeric 3-6-2006
McCasland Fee
18
T. Stradley 1/4 M.I.
L. Roberts, etal
Chesapeake Oper.
Tamarack, 3/4 A. Antweil, Tr.
Xeric 2-3-2002 8-15-2003
Hixon Dev. 7-1-95 84741 90.00
22
Tamarack Kornegay to 7360
Apache Cont. HBP 0316708
U.S. M.I.
R.D. Ellison
Burgandy OE&G 0316708 "Warren Unit"
J. Hendrix Corp. 23777
"Lindo-Fed."
Gulf Turner-Fed. TD4472
23
24
Chesapeake
Texas Crude HBP 0634-C
Burnett Caroline-Devey TD7500 D/A 10-17-81
Xeric 12-1-2006 97915 110.00
U.S. M.I.
19
Chesapeake 19-9-2006 10-30-2004 5-21-2004
Tex Cr. Carter


12
14
2640'
Tract A 672 acres
Tract A 640 Acres
HOUSE SWD #1
6,500
7,126
APACHE
BLANKENSHIP
DAISY BLANKENSHIP
HESTER 12
WESTERN
HESTER 12
DIXIE QUEEN
MERIT
HOUSE
PICAYUNE
DE HOUSE A
BW ARNOLD
G M CONE A
G M CONE B
SF CONE B
HOUSE SWD
BIG HICK
CROWN
HOUSE
PIERCE HOUSE
PALL MALL
KOOL
TEXAS DUPREE 14
ROTAN
CORRIGAN
MOWAY CORRIGAN
CHESTERFIELD
VICEROY
CAMEL JOE
JOE CAMEL
PIERCE KIRKBRIDE
Apache
CORPORATION
House Field, Lea Co. NM
SW Disposal Well Proposal
Locator Map
North New Mexico Overlay.DWL
0
500
1,000
1,500
FEET
POSTED WELL DATA
Operator
Well Name
Well Number
TD
WELL SYMBOLS
Oil Well
Gas Well
Service Well
Abandoned Oil Well
Active Producer
Plugged and Abandoned
Dry Hole
Proposed Drilling Location
By: Bret Peary
October 20, 2000

				Surface Casing				Intermediate Casing				Production Casing				
Operator Name	Lease Name	Well Num	TD	Csg Size	Csg Depth	Cmt Sx	TOC Est	Csg Size	Csg Depth	Cmt Sx	TOC Est	Csg Size	Csg Depth	Cmt Sx	TOC Est	Completion Intervals
APACHE CORP	BIG KICK	1	7800	8.625	1640	775	Surface			0		5.5	7800	1550	Surface	6969-7036; 6036-6802
APACHE CORP	BIG KICK	2	7320	8.625	1604	750	Surface			0		5.5	7320	1370	Surface	6053-7076
APACHE CORP	BLANKENSHIP	4	7330	8.625	1575	800	Surface			0		5.5	7330	1350	Surface	6034-6797; 6960-7048
APACHE CORP	BLANKENSHIP	5	7300	8.625	1570	800	Surface			0		5.5	7300	1600	Surface	6034-6734; 6024-6734; 6956-7025
APACHE CORP	BLANKENSHIP	6	7310	8.625	1600	950	Surface			0		5.5	7310	1500	Surface	6046-6404
APACHE CORP	CAMEL JOE	3	7840	8.625	1622	850	Surface			0		5.5	7840	1610	Surface	6028-6826
APACHE CORP	CONE A	1	7078	13 3/8	3180	400	surf	7 5/8	4484	680	Liner	5.5	4200-7032	200	5872	7032-7078; 6638-6817
APACHE CORP	DAISY BLANKENSHIP	1	7125	12.75	319	320	Surface	8.625	4275	0	~~7 5/8~~	5.5	7125	693	3107	6990-7034; 6016-7034; 7012-7016; 4281-4325
APACHE CORP	DAISY BLANKENSHIP	2	7125	8.75	1539	1100	Surface			0	5 1/2	5.5	7125	600	~~4281~~ 3861	6968-7009; 5946-6055
APACHE CORP	DAISY BLANKENSHIP	3	7105	13.375	320	325	Surface	8.625	3204	1200	291	5.5	7090	1100	712	7023-7029; 6674-6747; 5942-608
APACHE CORP	DIXIE QUEEN	1	7800	13.375	80	50	10	8.625	1591	740	Surface	5.5	7800	1730	Surface	6688-6736
APACHE CORP	DIXIE QUEEN	2	7320	8.625	1596	750	Surface			0		5.5	7320	1200	363	6044-6748
WESTERN EQUIPMENT CO	HESTER 12	2	7100	8.625	1633	550	298			0	7 7/8 hole	5.5	7100	~~5400~~ 550	~~4781~~ 3910	~~6988-7056~~ 7022-7050; 6910-6954; 4274-4416
WESTERN EQUIPMENT CO	HESTER 12	1	7100	8.625	1685	550	350			0		5.5	7099	550	3910	7022-7050; 6910-6954; 4274-4416
APACHE CORP	HESTER 12	4	7350	8.625	1593	800	Surface			0		5.5	7384	1600	Surface	6052-6810
APACHE CORP	HESTER 12	6	7718	8.625	1596	800	Surface			0		5.5	7718	1925	Surface	6018-6377; 6018-6786; 6018-7008
APACHE CORP	HESTER 12	7	7330	8.625	1585	800	Surface			0		5.5	7330	1350	Surface	6036-6815; 6036-7030
APACHE CORP	HESTER 12	8	7700	8.625	1578	800	Surface			0		5.5	7700	1900	Surface	6033-6710
APACHE CORP	HESTER 12	9	7347	8.625	1605	750	Surface			0		5.5	7347	1190	448	6064-6332; 6979-7084
APACHE CORP	HOUSE	1	7750	8.625	1700	900	Surface			0		4.5	7750	800	4079	6927-7019; 6008-6011
APACHE CORP	HOUSE	2	7300	8.625	1595	750	Surface			0		5.5	7300	1400	Surface	6022-6274
APACHE CORP	HOUSE B	1	8112	13.375	305	300	Surface	9.625	4530	950	1643	5.5	7650	300	~~5011~~	6930-7000; 7020-7060; 4264-4303
APACHE CORP	HOUSE C	1	7810	9.625	1547	800	Surface	7	4476	500	1351	4.5	~~4200~~ 7810	700	4598	7214-7782; 6964-7033; 7300-7649
APACHE CORP	KOOL	1	7760	8.625	1617	867	Surface			0		5.5	7760	1225	658	5970-6100
APACHE CORP	MERIT	1	7800	8.625	1591	740	Surface			0		5.5	7800	1615	Surface	6699-6739
APACHE CORP	PALL MALL	1	7800	8.625	1630	1125	Surface			0		5.5	7797	1300	260	6960-7051
APACHE CORP	PICAYUNE	1	7805	8.625	1630	595	186			0		5.5	7805	1425	Surface	6987-7090; 5962-7355
APACHE CORP	VICEROY	1	7800	8.625	1587	1000	Surface			0		5.5	7800	1220	727	5944-6104

No Cores

OK

OK

OK

6150

ok

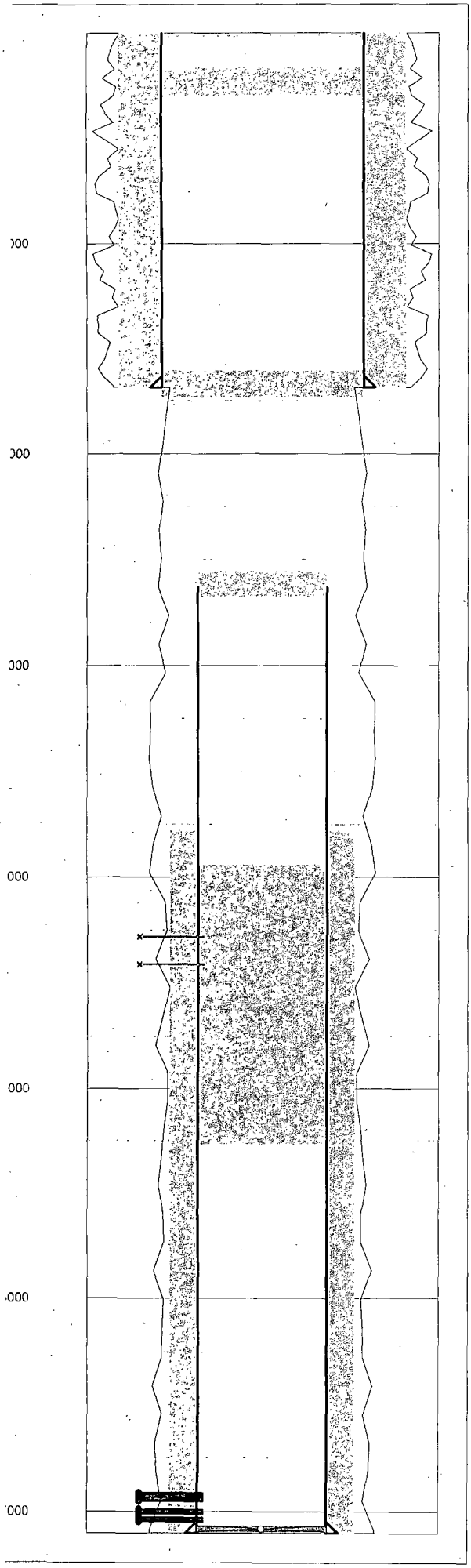
CIRC Liner

TE

4250 or higher

Liner

Pierce ~~House~~ 4351 Shallow



CURRENT COMPLETION

Last Updated: 2/26/2009 2:26:46 PM

Field Name	Lease Name	Well No.
House	Hester 12	1

County	State	API	GL (ft)	KB (ft)
Lea	New Mexico	30-025-07773	3559	3566

Sec.	Twp/Blk	Rng/Svy	Footage
12	20S	38E	660' FSL & 1980' FWL from Section

Spud Date	Comp. Date	Prepared By	Last Updated
8/27/1956	10/4/1956	JLF	2/26/2009

Current Status

Plugged and abandoned.

Hole Summary

Date	OD (in)	Top (KB ft)	Bottom (KB ft)	Comments
	12.2500	0	1,685	
	7.8750	1,685	7,100	

Tubular Summary

Date	Description	OD (in)	Wt (lb/ft)	Grade	Top (KB ft)	Bottom (KB ft)
	Surface Casing	8.6250	32.00	J55	0	1,685
	Production Casing	5.5000			2,630	7,099

Casing Cement Summary

Date	No. Sx	OD (in)	ID (in)	Top (KB ft)	Bottom (KB ft)
	550	12.2500	8.6250	0	1,685
	550	7.8750	5.5000	3,780	7,099

Tools/Problems Summary

Date	Tool Type	OD (in)	ID (in)	Top (KB ft)	Bottom (KB ft)
	FC	5.5000	0.0000	7,065	

Cement Plug Summary

Date	No. Sx	OD (in)	Top (KB ft)	Bottom (KB ft)
	10	8.6250	0	25
	40	8.6250	160	300
	50	8.6250	1,605	1,735
	50	5.5000	2,555	2,681
	125	5.5000	3,940	5,272
	0	5.5000	7,065	7,099

Perf Summary

Date	Perf Status	Formation	Top (KB ft)	Bottom (KB ft)	SPF	Shots	Phasing
	Squeezed	San Andres	4,274	4,284			0
	Squeezed	San Andres	4,406	4,416			0
	Isolated	Drinkard	6,910	6,954			0
	Isolated	Drinkard	6,987	7,014			0
	Isolated	Drinkard	7,022	7,050			0

Completion History Summary

ast Updated: 2/26/2009 2:26:46 PM **C U R R E N T C O M P L E T I O N**

eld Name	Lease Name	Well No.	County	State	API	GL (ft)	KB (ft)
ouse	Hester 12	1	Lea	New Mexico	30-025-07773	3559	3566

ec.	Twp/Blk	Rng/Svy	Footage	Spud Date	Comp. Date	Prepared By	Last Updated
2	20S	38E	660' FSL & 1980' FWL from Section	8/27/1956	10/4/1956	JLF	2/26/2009

urrent Status

lugged and abandoned.

etailed Summaries

ole Summary

Date	OD (in)	Top (KB ft)	Bottom (KB ft)	Comments
	12.2500	0	1,685	
	7.8750	1,685	7,100	

ubular Summary

Date	Description	OD (in)	Wt (lb/ft)	Grade	Coupling	Top (KB ft)	Bottom (KB ft)	Comments
	Surface Casing	8.6250	32.00	J55		0	1,685	
	Production Casing	5.5000				2,630	7,099	15.5 and 17#, 2630' pulled when plugged

asing Cement Summary

Date	No. Sx	OD (in)	ID (in)	Top (KB ft)	Bottom (KB ft)	Cement Description	Comments
	550	12.2500	8.6250	0	1,685		Circulate cement
	550	7.8750	5.5000	3,780	7,099		

ools/Problems Summary

Date	Tool Type	OD (in)	ID (in)	Top (KB ft)	Bottom (KB ft)	Description	Comments
	FC	*5.5000*	*0.0000*	*7,065*			

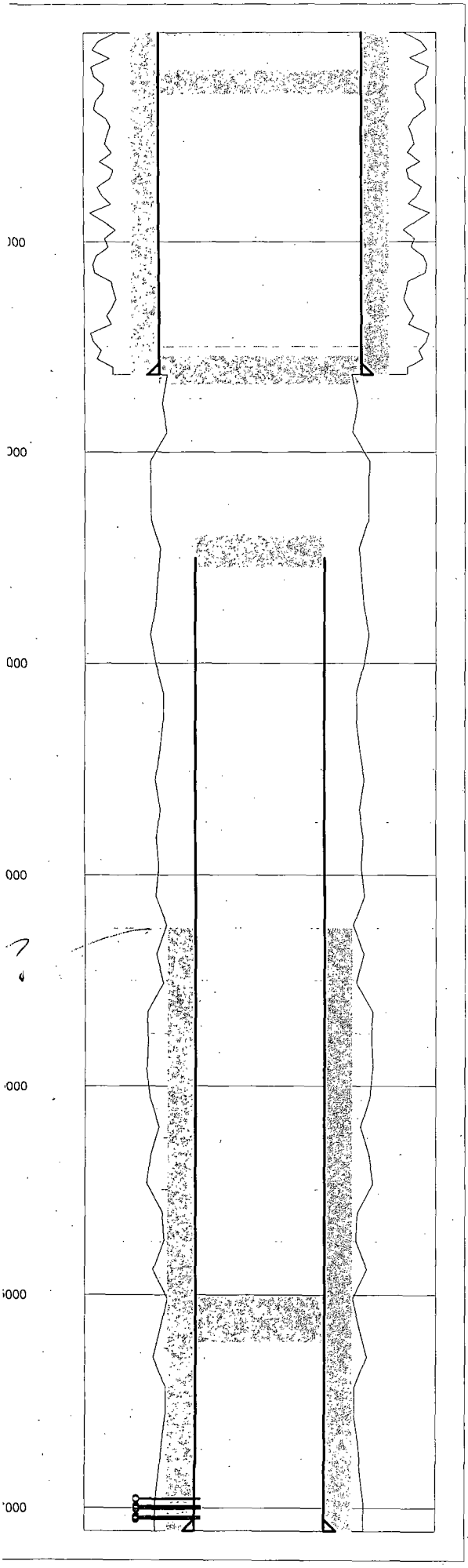
ement Plug Summary

Date	No. Sx	OD (in)	Top (KB ft)	Bottom (KB ft)	Comments
	10	8.6250	0	25	
	40	8.6250	160	300	
	50	8.6250	1,605	1,735	
	50	5.5000	2,555	2,681	
	125	5.5000	3,940	5,272	
	0	5.5000	7,065	7,099	Cmt in shoe jt

erf Summary

Date	Perf Status	Formation	Top (KB ft)	Bottom (KB ft)	SPF	Shots	Phasing	Perf Comments	Interval Comments
	Squeezed	San Andres	4,274	4,284			0		10 shots
	Squeezed	San Andres	4,406	4,416			0		4 shots
	Isolated	Drinkard	6,910	6,954			0		
	Isolated	Drinkard	6,987	7,014			0		
	Isolated	Drinkard	7,022	7,050			0		

Completion History Summary



CURRENT COMPLETION

Last Updated: 2/26/2009 2:30:17 PM

Field Name	Lease Name	Well No.
House	Hester 12	2

County	State	API	GL (ft)	KB (ft)
Lea	New Mexico	30-025-07773	0	3566

Sec.	Twp/Blk	Rng/Svy	Footage
12	20S	38E	660' FSL & 1980' FWL from Section

Spud Date	Comp. Date	Prepared By	Last Updated
8/30/1956	10/2/1956	JLF	2/26/2009

Current Status

Plugged and abandoned.

Hole Summary

Date	OD (in)	Top (KB ft)	Bottom (KB ft)	Comments
	12.2500	0	1,633	
	7.8750	1,633	7,106	

Tubular Summary

Date	Description	OD (in)	Wt (lb/ft)	Grade	Top (KB ft)	Bottom (KB ft)
	Surface Casing	8.6250	32.00	J55	0	1,633
	Production Casing	5.5000			2,500	7,106

Casing Cement Summary

Date	No. Sx	OD (in)	ID (in)	Top (KB ft)	Bottom (KB ft)
	650	11.0000	8.6250	0	1,633
	550	7.8750	5.5000	4,250	7,106

Tools/Problems Summary

Cement Plug Summary

Date	No. Sx	OD (in)	Top (KB ft)	Bottom (KB ft)
	10	8.6250	0	25
	35	8.6250	178	300
	40	8.6250	1,544	1,684
	50	8.6250	1,683	1,684
	50	8.6250	1,683	1,683
	40	5.5000	2,390	2,550
	25	5.5000	6,002	6,223

Perf Summary

Date	*Perf Status*	*Formation*	*Top (KB ft)*	*Bottom (KB ft)*	*SPF*	*Shots*	*Phasing*
	Open	Drinkard	6,952	6,963			0
	Open	Drinkard	6,988	7,008	4	84	0
	Open	Drinkard	7,036	7,056	4	84	0

Completion History Summary

eld Name	Lease Name	Well No.	County	State	API	GL (ft)	KB (ft)
ouse	Hester 12	2	Lea	New Mexico	30-025-07773	0	3566

ec.	Twp/Blk	Rng/Svy	Footage	Spud Date	Comp. Date	Prepared By	Last Updated
2	20S	38E	660' FSL & 1980' FWL from Section	8/30/1956	10/2/1956	JLF	2/26/2009

urrent Status

lugged and abandoned.

etailed Summaries

ole Summary

Date	OD (in)	Top (KB ft)	Bottom (KB ft)	Comments
	12.2500	0	1,633	
	7.8750	1,633	7,106	

ubular Summary

Date	Description	OD (in)	Wt (lb/ft)	Grade	Coupling	Top (KB ft)	Bottom (KB ft)	Comments
	Surface Casing	8.6250	32.00	J55		0	1,633	
	Production Casing	5.5000				2,500	7,106	15.5 & 17#. Pulled 2500' of pipe when well was plugged.

asing Cement Summary

Date	No. Sx	OD (in)	ID (in)	Top (KB ft)	Bottom (KB ft)	Cement Description	Comments
	650	11.0000	8.6250	0	1,633		Circulate cement
	550	7.8750	5.5000	4,250	7,106		

ools/Problems Summary

ement Plug Summary

Date	No. Sx	OD (in)	Top (KB ft)	Bottom (KB ft)	Comments
	10	8.6250	0	25	
	35	8.6250	178	300	
	40	8.6250	1,544	1,684	
	50	8.6250	1,683	1,684	
	50	8.6250	1,683	1,683	No fill tagged
	40	5.5000	2,390	2,550	
	25	5.5000	6,002	6,223	

erf Summary

Date	Perf Status	Formation	Top (KB ft)	Bottom (KB ft)	SPF	Shots	Phasing	Perf Comments	Interval Comments
	Open	Drinkard	6,952	6,963			0		4 holes
	Open	Drinkard	6,988	7,008	4	84	0		
	Open	Drinkard	7,036	7,056	4	84	0		

ompletion History Summary

ITEM VII OF NEW MEXICO OCD FORM C-108
DATA ON PROPOSED OPERATIONS
HOUSE SWD #1

1) Proposed average initial injection rate is 3000 bwpd.
Maximum injection rate should not exceed 10,000 bwpd.

2) The injection system will be operated as a closed system.

3) Proposed average initial injection pressure is 920 psi.
Proposed maximum pressure will not exceed the pressure limitations ordered by the Division. Apache Corp will perform step rate tests and anticipates securing a maximum injection pressure of 1200 psi.

4) Source water will come from the Blinebry, Tubb, and Drinkard formations.

5) Not Applicable.

ITEM VIII OF NEW MEXICO OCD FORM C-108
GEOLOGIC DATA ON THE INJECTION ZONE & UNDERGROUND DRINKING WATER
HOUSE SWD #1

The Formation being targeted for water injection is the San Andres Formation at depths ranging from approximately 4250' to 5500' with the targeted injection interval ranging from 4600' to 5500'. This formations is Guadalupian in age and is a sequence of shallow marine carbonates, which have for the most part been dolomatized. The vertical extent of the injection zone is limited top and bottom by impermeable shales and carbonates. All injected fluids will remain in the reservoir.

Based on communications with the New Mexico States Engineer's Roswell office and a review of online files there are 8 fresh water wells (see attached) in the area of review. The deepest of these wells is 90' which is the assumed base of fresh water. All wellbores involved with the proposed injection program are constructed to not allow injection water into this fresh water source.

New Mexico Office of the State Engineer

POD Reports and Downloads

Township: 20S Range: 38E Sections: 12

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) Non-Domestic Domestic All

POD / Surface Data Report | Avg Depth to Water Report | Water Column Report

Clear Form | WATERS Menu | Help

POD / SURFACE DATA REPORT 10/20/2008

(acre ft per annum) (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) X Y are in Feet

DB File Nbr	Use	Diversion	Owner	POD Number	Source	Tws	Rng	Sec	q	q	q	Zone	X	Y
L 02735	STK	3	EARL KORNEGAY	L 02735	Shallow	20S	38E	12	4	4	4			
				L 02735 APPRO	Shallow	20S	38E	12	4	4	4			
				L 02735 CPPU		20S	38E	12	4	4	4			
L 06693 (E)	PRO	0	KINGS RESOURCES	L 06693 (E) EXP		20S	38E	12	2	4	2			
L 07933	DOM	0	ALVIN HOWSE	L 07933 EXP		20S	38E	12	1	4				
L 10049	DOM	3	AYLMER NUTTALL	L 10049	Shallow	20S	38E	12	4					
L 10050	STK	0	AYLMER NUTTALL	L 10050 EXP		20S	38E	12	4	2	2			
L 11004	DOM	3	ISAIAS PROVIZO	L 11004	Shallow	20S	38E	12	3	3	3			

Record Count: 8

(UTM are in Meters)			Start	Finish	Depth	Depth (in feet)
UTM_Zone	Easting	Northing	Date	Date	Well	Water
13	678836	3606463	12/26/1954	12/27/1954	90	65
13	678836	3606463	12/26/1954	12/27/1954	90	65
13	678836	3606463				
13	678821	3607469				
13	677916	3607357				
13	678535	3606758	12/20/1988	12/30/1988	90	50
13	678828	3607066				
13	677427	3606442	11/10/1999	11/10/1999	60	46

ITEMS IX THROUGH XII OF NEW MEXICO OCD FORM C-108
HOUSE SWD #1

IX This well will be acid stimulated at the initial completion and as needed to eliminate near wellbore skin damage.

X This well has not been drilled, therefore no log and/or test data are available.

XI See attached water analysis for two fresh water wells.

XII After reviewing the geology in a one and one-half mile radius around the proposed waterflood area there appears no evidence of fractures or any hydrologic connection between the zone of injection and any overlying or underlying strata.

North Permian Basin Region
P.O. Box 740
Sundown, TX 79372-0740
(806) 229-8121
Lab Team Leader - Sheila Hernandez
(432) 495-7240

Water Analysis Report by Baker Petrolite

Company:	APACHE CORPORATION	Sales RDT:	44217
Region:	PERMIAN BASIN	Account Manager:	FRANK GARDNER (575) 390-5194
Area:	MONUMENT, NM	Sample #:	372540
Lease/Platform:	GILBERT UNIT	Analysis ID #:	86969
Entity (or well #):	HORSE PEN	Analysis Cost:	$80.00
Formation:	UNKNOWN		
Sample Point:	WELLHEAD		

Summary	
Sampling Date:	10/21/08
Analysis Date:	10/30/08
Analyst:	KIMBERLY POOLE
TDS (mg/l or g/m3):	1378.5
Density (g/cm3, tonne/m3):	1.001
Anion/Cation Ratio:	0.9999996
Carbon Dioxide:	0 PPM
Oxygen:	
Comments:	
RESISTIVITY 9 OHM-M @ 75°F	

Analysis of Sample 372540 @ 75 °F

Anions	mg/l	meq/l
Chloride:	**336.0**	**9.48**
Bicarbonate:	**220.0**	**3.61**
Carbonate:	**0.0**	**0.**
Sulfate:	**391.0**	**8.14**
Phosphate:		
Borate:		
Silicate:		
Hydrogen Sulfide:		0 PPM
pH at time of sampling:		7.21
pH at time of analysis:		
pH used in Calculation:		**7.21**

Cations	mg/l	meq/l
Sodium:	**216.0**	**9.4**
Magnesium:	**41.0**	**3.37**
Calcium:	**164.0**	**8.18**
Strontium:	**2.0**	**0.05**
Barium:	**0.1**	**0.**
Iron:	**0.9**	**0.03**
Potassium:	7.5	0.19
Aluminum:		
Chromium:		
Copper:		
Lead:		
Manganese:	0.025	0.
Nickel:		

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite $CaCO_3$		Gypsum $CaSO_4 * 2H_2O$		Anhydrite $CaSO_4$		Celestite $SrSO_4$		Barite $BaSO_4$		CO_2 Press
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0	0.10	2.10	-0.91	0.00	-0.98	0.00	-1.13	0.00	0.69	0.00	0.19
100	0	0.23	5.60	-0.91	0.00	-0.92	0.00	-1.12	0.00	0.54	0.00	0.24
120	0	0.37	9.45	-0.90	0.00	-0.83	0.00	-1.09	0.00	0.43	0.00	0.31
140	0	0.51	14.00	-0.88	0.00	-0.71	0.00	-1.05	0.00	0.34	0.00	0.38

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

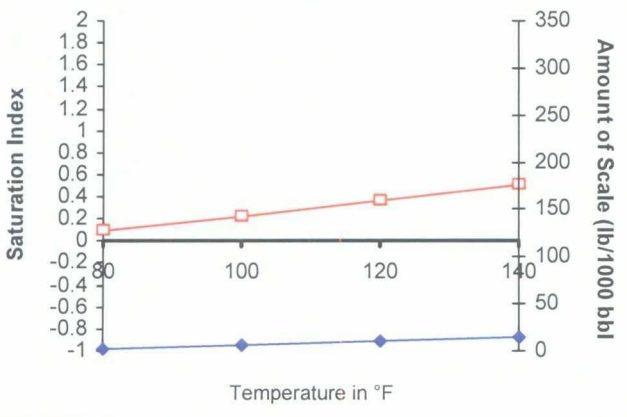
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

Note 3: The reported CO2 pressure is actually the calculated CO2 fugacity. It is usually nearly the same as the CO2 partial pressure.

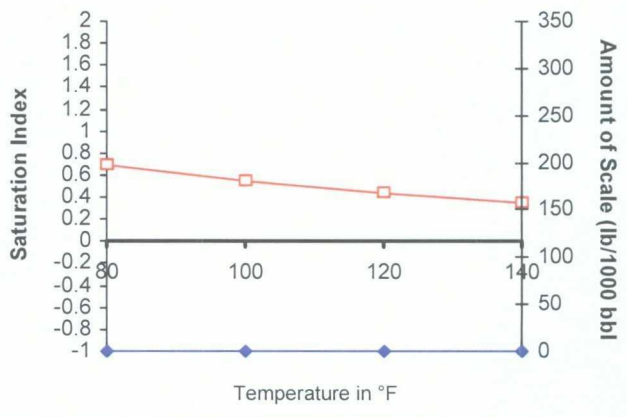
Scale Predictions from Baker Petrolite

Analysis of Sample 372540 @ 75 °F for APACHE CORPORATION, 10/30/08

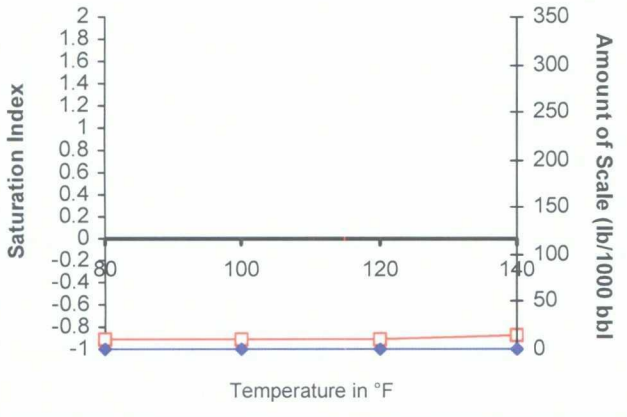
Calcite - CaCO3



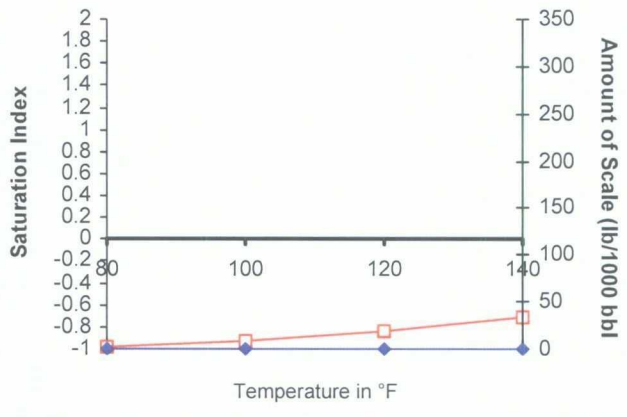
Barite - BaSO4



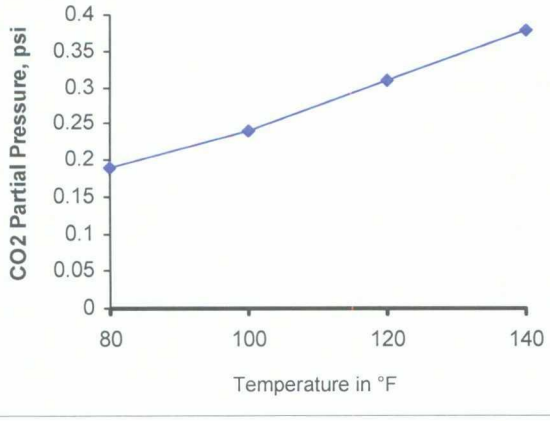
Gypsum - CaSO4*2H20



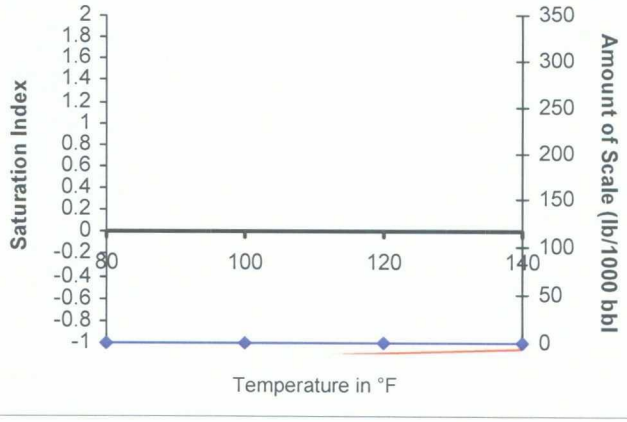
Anhydrite - CaSO4



Carbon Dioxide Partial Pressure



Celestite - SrSO4



North Permian Basin Region
P.O. Box 740
Sundown, TX 79372-0740
(806) 229-8121
Lab Team Leader - Sheila Hernandez
(432) 495-7240

Water Analysis Report by Baker Petrolite

Company:	APACHE CORPORATION	Sales RDT:	44217
Region:	PERMIAN BASIN	Account Manager:	FRANK GARDNER (575) 390-5194
Area:	MONUMENT, NM	Sample #:	372539
Lease/Platform:	OSCAR UNIT	Analysis ID #:	86970
Entity (or well #):	HOUSE	Analysis Cost:	$80.00
Formation:	UNKNOWN		
Sample Point:	WELLHEAD		

Summary	
Sampling Date:	10/21/08
Analysis Date:	10/30/08
Analyst:	KIMBERLY POOLE
TDS (mg/l or g/m3):	1378.5
Density (g/cm3, tonne/m3):	1.002
Anion/Cation Ratio:	0.9999997
Carbon Dioxide:	0 PPM
Oxygen:	
Comments:	
RESISTIVITY 7.5 OHM-M @ 75°F	

Analysis of Sample 372539 @ 75 °F

Anions	mg/l	meq/l
Chloride:	**415.0**	**11.71**
Bicarbonate:	**305.0**	**5.**
Carbonate:	**0.0**	**0.**
Sulfate:	**491.0**	**10.22**
Phosphate:		
Borate:		
Silicate:		
Hydrogen Sulfide:		0 PPM
pH at time of sampling:		7.03
pH at time of analysis:		
pH used in Calculation:		**7.03**

Cations	mg/l	meq/l
Sodium:	**331.2**	**14.41**
Magnesium:	**41.0**	**3.37**
Calcium:	**174.0**	**8.68**
Strontium:	**2.0**	**0.05**
Barium:	**0.1**	**0.**
Iron:	**0.2**	**0.01**
Potassium:	16.0	0.41
Aluminum:		
Chromium:		
Copper:		
Lead:		
Manganese:	0.025	0.
Nickel:		

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite $CaCO_3$		Gypsum $CaSO_4*2H_2O$		Anhydrite $CaSO_4$		Celestite $SrSO_4$		Barite $BaSO_4$		CO_2 Press
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0	0.10	2.10	-0.91	0.00	-0.98	0.00	-1.13	0.00	0.69	0.00	0.19
100	0	0.23	5.60	-0.91	0.00	-0.92	0.00	-1.12	0.00	0.54	0.00	0.24
120	0	0.37	9.45	-0.90	0.00	-0.83	0.00	-1.09	0.00	0.43	0.00	0.31
140	0	0.51	14.00	-0.88	0.00	-0.71	0.00	-1.05	0.00	0.34	0.00	0.38

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

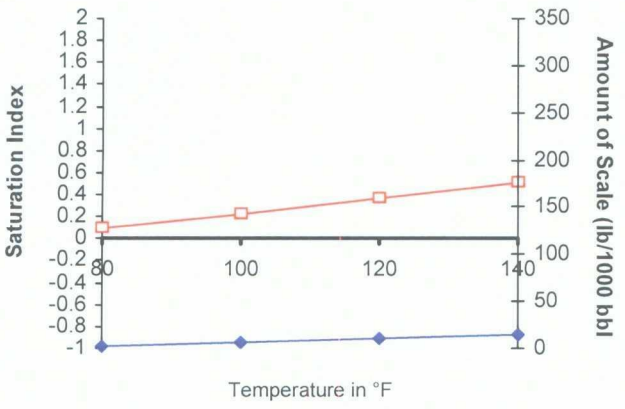
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

Note 3: The reported CO2 pressure is actually the calculated CO2 fugacity. It is usually nearly the same as the CO2 partial pressure.

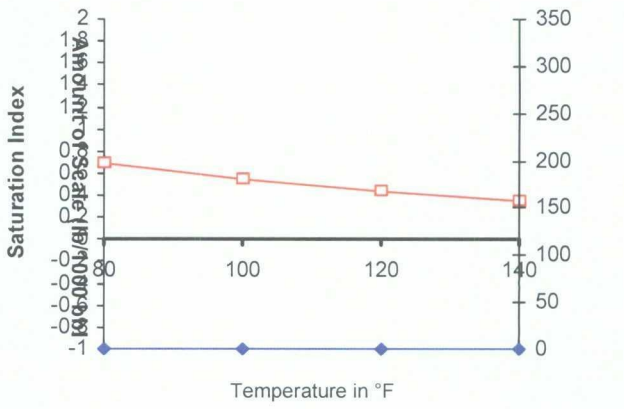
Scale Predictions from Baker Petrolite

Analysis of Sample 372539 @ 75 °F for APACHE CORPORATION, 10/30/08

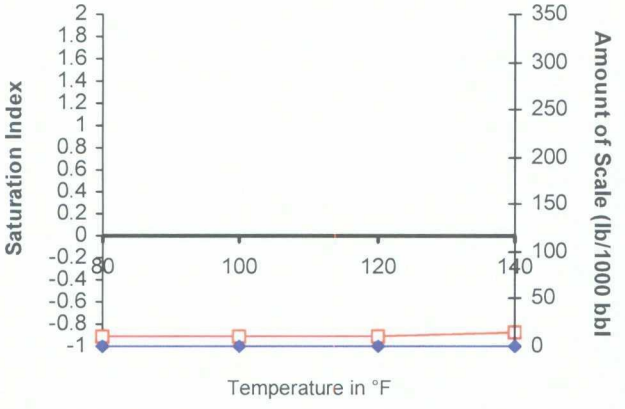
Calcite - CaCO3



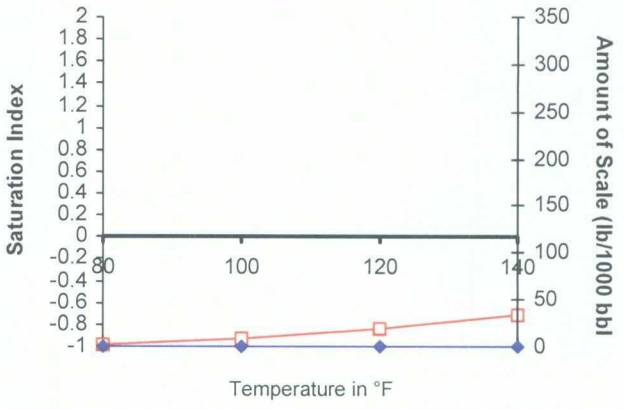
Barite - BaSO4



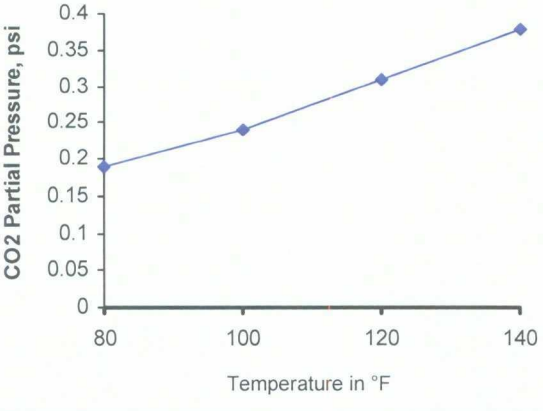
Gypsum - CaSO4*2H20



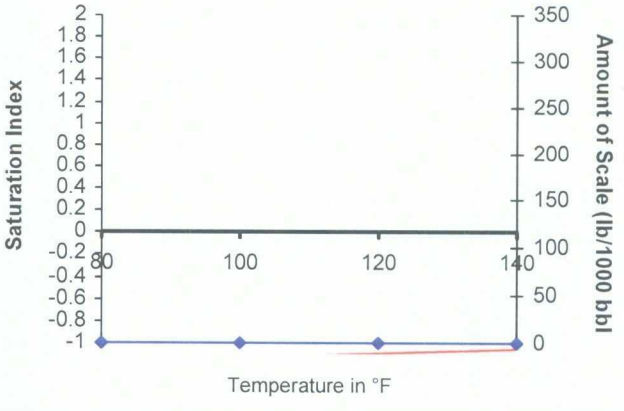
Anhydrite - CaSO4



Carbon Dioxide Partial Pressure



Celestite - SrSO4



6120 S. YALE / SUITE 1500 / TULSA, OKLAHOMA 74136

Apache CORPORATION

Central Region Land Department
(918) 491-4900
(918) 491-4854 (FAX)

October 16, 2008

New Mexico Oil Conservation Division
Attn: Mr. William Jones
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: C-108 Application for Disposal
House SWD #1
990' FSL & 500' FWL
Section 12, T20S, R38E
Lea County, New Mexico

Dear Mr. Jones,

Please accept this letter certifying Apache Corporation as the current surface owner where the House SWD #1 disposal well is to be located in the SW/4 SW/4 of Section 12, Township 20 South, Range 38 East, Lea County, New Mexico.

Yours truly,
APACHE CORPORATION

Michelle Hanson

Michelle Hanson
Landman
(918) 491-4838
(918) 491-4854 fax
michelle.hanson@apachecorp.com

APPLICATION FOR SALT WATER DISPOSAL
HOUSE SWD #1
OFFSET OPERATOR

Ray A Pierce
P.O. Box 1969
Eunice, NM 88231-1969

Sent via certified mail: 7006 0810 0001 3460 5494

A copy of the application was mailed to the offset operator listed above on February 26, 2009.

Sophie Mackay
Sophie Mackay, Engineering Technician

2/24/2009
Date

TWO WARREN PLACE, SUITE 1500 / 6120 SOUTH YALE / TULSA, OK 74136-4224

Apache CORPORATION

(918) 491-4900
FAX: (918) 491-4853
FAX: (918) 491-4854

February 26, 2009

Offset Operator

Ray A. Pierce
P.O. Box 1969
Eunice, NM 88231-1969

Re: Proposed – House SWD #1
Unit M, Sec 12, T 20S, R 38E
SWD; San Andres
Lea County, New Mexico

Attached please find a copy of completed form C-108 with attachments, which Apache has filed with the New Mexico Oil Conservation Division.

Sincerely,
Apache Corporation

Sophie Mackay

Sophie Mackay
Engineering Technician

cc: State of New Mexico
Energy, Minerals & Natural Resources Dept.
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

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 in the regular and entire issue of said newspaper, and not a supplement thereof for a period

of 1 issue(s).
Beginning with the issue dated
November 18, 2008
and ending with the issue dated
November 18, 2008

Kathi Bearden
PUBLISHER

Sworn and subscribed to before me
this 18th day of
November, 2008

Notary Public

My commission expires
February 07, 2009
(Seal)

OFFICIAL SEAL
DORA MONTZ
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires: _____

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

LEGAL NOTICE
NOVEMBER 18, 2008

Notice is hereby given of the application of Apache Corporation, 6120 South Yale, Suite 1500, Tulsa, Oklahoma 74136-4224 (918) 491-4864, to the Oil Conservation Division, New Mexico Energy, Minerals and Natural Resources Department, for approval of the following injection well to be drilled for the purpose of waste disposal.

Pool Name: SWD; San Andres
Well is located in Lea County, New Mexico

Lease/Unit Name: House SWD

Well No. 1 (30-025-39193)
Location: 990' FSL & 500' FWL, Section 12, T20S, R38E, Unit M

The injection formation is the San Andres located between the interval of 4600' MD to 5500' MD below the curface of the ground. Expected maximum injection rate is 10,000 barrels per day and the expected maximum injectionpressure is 1200 psi. Interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, NM 87505 within fifteen days.

#24544

67103439 00021377

SOPHIE MACKAY
APACHE CORPORATION
6120 SOUTH YALE, SUITE 1500
TULSA, OK 74136

NUMBER OF COPIES RECEIVED		
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TRANSPORTER OIL / GAS		
PRORATION OFFICE		
OPERATOR		

NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-103
(Rev 3-55)

MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

1963 JUL 10 PM 2 56

Name of Company	Address
Pan American petroleum Corporation	Box 68 Hobbs, New Mexico

Lease	Well No.	Unit Letter	Section	Township	Range
D. E. House "B"	1	P	11	20S	38E

Date Work Performed	Pool	County
6/10 thru 7/10/63	House-San Andres	Lea

THIS IS A REPORT OF: *(Check appropriate block)*

☐ Beginning Drilling Operations ☐ Casing Test and Cement Job ☒ Other *(Explain)*:

☐ Plugging ☐ Remedial Work Recompletion Operations

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

In accordance with Form C-102 approved 5-23-63, plug back and recompletion operations were performed as follows: Spotted 25 sx cement plug across Drinkard perforations 7060'-6930'; 25 sx across Tubb perforations 6570'-6575'; and 25 sx across Blinebry perforations 6075'-6010'. Shot and pulled 5-1/2" casing from 5010' (left 5-1/2" from 5010' to 7660'). Spotted 25 sx plug in and out of 5-1/2" casing stub. All intervals filled with mud laden fluid. Set retainer at 4500' and squeezed open hole with 100 sx, left 27' cement on top of plug. Perforated 4372-80', 4384-94' W/2 SPF. Acidized with 600 gal mud acid. Perforated 4332-38, 4343-48, 4351-58 W/2 SPF. Acidized with 3000 gal., evaluated. Non commercial. Squeezed below retainer set at 4315' with 75 sx cement. Perforated 4264-73; 4279-88', 4297-4303' W/2 SPF. Acidized with 3000 gal. On PT well flowed 6 BO x 18 BW in 24 hours thru 16/64" choke. API 32°

Witnessed by	Position	Company
C. D. Harvey	Field Foreman	Pan American Petroleum Corporation

FILL IN BELOW FOR REMEDIAL WORK REPORTS *ONLY*

ORIGINAL WELL DATA

D F Elev.	T D	PBTD	Producing Interval	Completion Date
3757' RDB	8112	7092'	6010-6750'	5-6-38

Tubing Diameter	Tubing Depth	Oil String Diameter	Oil String Depth
2"	6700'	5-1/2"	7660'

Perforated Interval(s): Drinkard 6930-7060'; Tubb 6575-6750'; Blinebry 6020-6075'

Open Hole Interval	Producing Formation(s)
	Drinkard-Tubb-Blinebry

RESULTS OF WORKOVER

Test	Date of Test	Oil Production BPD	Gas Production MCFPD	Water Production BPD	GOR Cubic feet/Bbl	Gas Well Potential MCFPD
Before Workover						
After Workover						

OIL CONSERVATION COMMISSION

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

Approved by	Name
	Original Signed V. E. STALEY
Title	Position
	Area Superintendent
Date	Company
	Pan American Petroleum Corporation

Form C-102

DUPLICATE

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

MISCELLANEOUS NOTICES

RECEIVED
AUG 16
HOBBS-OFFICE

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			

Hobbs, New Mexico - August 14, 1950
Place Date

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico

Gentlemen:

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

Stanolind Oil and Gas Company (Company or Operator) D. E. Howse "A" (Lease) Well No. 2 in SE/4 SE/4 of Sec. 11, T. 20-S, R. 38-E, N. M. P. M., House Field.

Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

The well was drilled to 8112' and the Devonian produced sulphur water with no indication of commercial production of oil or gas on drill stem test. A cement plug was placed at 8112-7794' with a plastic cap, 7794-7781'.

On August 15, 1950 @ 11:00 A. M., 48 hours will have elapsed since cementing the 5-1/2" casing at 7660' with 300 sacks cement. Top of cement behind pipe was located at 6150' by temperature survey. At that time, pipe and water shut-off will be tested with approximately 1,000 psi for 30 minutes before and after drilling cement plug.

If satisfactory tests are obtained, completion operations will be resumed.

Approved AUG AUG 15 1950, 19
except at follows:

OIL CONSERVATION COMMISSION

By Roy Yeckroake

Title Oil & Gas Inspector

Stanolind Oil and Gas Company
Company or Operator

By [signature]

Position Field Engineer

Send communications regarding well to

Name Ralph L. Hendrickson

Address P. O. Box "F"

Hobbs, New Mexico

DUPLICATE

Form C-104

OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

RECEIVED
MAR 13 1951
OIL CONSERVATION COMMISSION

REQUEST FOR (OIL)-(GAS) ALLOWABLE

It is necessary that this form be submitted by the operator before an initial allowable will be assigned to any completed oil or gas well. Form C-110 (Certificate of Compliance and Authorization to Transport Oil) will not be approved until Form C-104 is filed with the Commission. Form C-104 is to be submitted in triplicate to the office to which Form C-101 was sent. Two copies will be retained there and the other submitted to the Proration Office, Hobbs, New Mexico. The allowable will be assigned effective 7:00 a.m. on date of completion, provided completion report is filed during month of completion. The completion date shall be that date in the case of an oil well when oil is delivered into the stock tanks. Gas must be reported on 15.025 P.B. at 60° Fahrenheit.

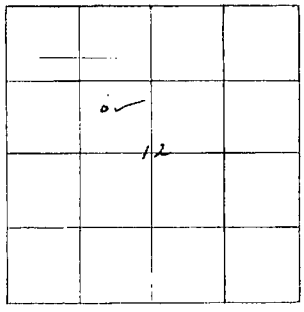
Hobbs, New Mexico (Place) March 12, 1951 (Date)

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS:

Stanolind Oil and Gas Co. (Company or Operator) G. M. Cone "A" (Lease) Well No. 1 in SE 1/4 NW 1/4

section 12, T. 20-S, R. 38-E, N.M.P.M. House Pool Lea County

Please indicate location:



Unit letter:

Elevation 3580 Spudded 1-20-51 Completed 2-24-51

Total Depth 7078' P.B.

Top Oil/Gas Pay 6995' Top Water Pay

Initial Production Test: Pump 140 Flow (BOPD OR CU.FT. PER DAY)

Based on 140 Bbls. Oil in 24 Hrs. Mins.

Method of Test (Pitot, gauge, prover, meter run): Well Tester

Size of choke in inches W.O. 2"

Tubing (Size) 2" @ 7059 Feet

Pressures: Tubing Casing

Gas/Oil Ratio 342 cu.ft./bbl. Gravity 37°

Casing Perforations:
None

Casing & Cementing Record

Size	Feet	Sax
13-3/8	318	400
7-5/8	4484	680
5-1/2	4192-7032'	300

Acid Record:

2,000 Gals 7032 to 7078
Gals to
Gals to

Shooting Record.

Qts to
Qts to
Qts to

Show of Oil, Gas and water

S/ 6995-7078'
S/
S/
S/
S/
S/
S/
S/

Natural Production Test: Pumping Flowing

Test after acid or shot: 140 BOPD Pumping Flowing

Please indicate below Formation Tops (in conformance with geographical section of state):

Southeastern New Mexico		Northwestern New Mexico			
T. Anhy	1555	T. Devonian		T. Ojo Alamo	
T. Salt	1625	T. Silurian		T. Kirtland-Fruitland	
B. Salt	2710	T. Montoya		T. Farmington	
T. Yates	2870	T. Simpson		T. Pictured Cliffs	
T. 7 Rivers		T. McKee		T. Cliff House	
T. Queen	3865	T. Ellenburger		T. Menefee	
T. Grayburg		T. Gr. Wash		T. Point Lookout	
T. San Andres	4290	T. Granite		T. Mancos	
T. Glorieta	5618	T.		T. Dakota	
T. Drinkard	6995	T.		T. Morrison	
T. Tubbs	6620	T.		T. Penn	
T. Abo		T.		T.	
T. Penn		T.		T.	
T. Miss		T.		T.	

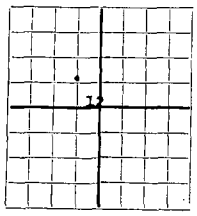
(Please supply required information on reverse side of form)

FORM C-105

RECEIVED
MAR 13 1951
OIL CONSERVATION COMMISSION
HOBBS OFFICE

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

WELL RECORD



AREA 640 ACRES
LOCATE WELL CORRECTLY

Mail to Oil Conservation Commission, Santa Fe, New Mexico, or its proper agent not more than twenty days after completion of well. Follow instructions in the Rules and Regulations of the Commission. Indicate questionable data by following it with (?). SUBMIT IN TRIPLICATE. FORM C-110 WILL NOT BE APPROVED UNTIL FORM C-105 IS PROPERLY FILLED OUT.

Stanolind Oil and Gas Company, P. O. Box "F", Hobbs, New Mexico
Company or Operator Address

C. M. Cone "A" Well No. 1 in SE/4 NW/4 of Sec. 12, T. 20-S
Lease

R. 38-E, N. M. P. M., House Field, Lea County.

Well is 1980 feet south of the North line and 3300 feet west of the East line of Section 12

If State land the oil and gas lease is No. Assignment No.

If patented land the owner is C. M. Cone, Address Hobbs, New Mexico

If Government land the permittee is, Address

The Lessee is Stanolind Oil and Gas Company, Address Box 591; Tulsa, Oklahoma

Drilling commenced January 20 19 51 Drilling was completed February 13 19 51

Name of drilling contractor Parker Drilling Company, Address National Bank of Tulsa Bldg., Tulsa, Oklahoma

Elevation above sea level at top of casing 3580 feet.

The information given is to be kept confidential until Not Confidential 19

OIL SANDS OR ZONES

No. 1, from 4290 to 4490 No. 4, from to

No. 2, from 6995 to 7078 No. 5, from to

No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from None Encountered to feet.

No. 2, from to feet.

No. 3, from to feet.

No. 4, from to feet.

CASING RECORD

SIZE	WEIGHT PER FOOT	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT & FILLED FROM	PERFORATED FROM	PERFORATED TO	PURPOSE
13-3/8"	36.0#	8 RT	Armco	307'	Halliburton				
					Texas Pattern				Surface
7-5/8"	26.4#	8 RT	N-80 &						
			J-55	4473'	Halliburton				Oil String
5-1/2"	15.5#	8 RT	J-55	2842'	Brown Guide Shoe				Liner

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHODS USED	MUD GRAVITY	AMOUNT OF MUD USED
17-1/4"	13-3/8	318'	400 sx.	Plug	9.5#/gallon	
9-7/8"	7-5/8	4484'	680 sx.	"	10.5#/gallon	
6-3/4"	5-1/2	4190-7032'	300 sx.	Displacement		

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth Set

Adapters—Material Size

RECORD OF ~~SHOOTING OR~~ CHEMICAL TREATMENT

SIZE	SHELL USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT
		15% Reg. Acid	2000 Gal.	2-21-51	7032-7078'	

Results of shooting or chemical treatment After acidizing and recovering load oil and acid residue, 140 barrels oil and 41 barrels water were swabbed from the well in a 24-hour test.

RECORD OF DRILL-STEM AND SPECIAL TESTS

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto.

TOOLS USED

Rotary tools were used from 0 feet to 7078 feet, and from feet to feet

Cable tools were used from feet to feet, and from feet to feet

PRODUCTION

Put to producing February 24, 19 51

The production of the first 24 hours was 181 barrels of fluid of which 77.4 % was oil; % emulsion; 22.6 % water; and % sediment. Gravity, Be. 37°

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in.

EMPLOYEES

N. L. Tate, Driller A. W. Kyzan, Driller

M. Clement, Driller , Driller

FORMATION RECORD ON OTHER SIDE

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

Subscribed and sworn to before me this 12th day of March, 1951

Notary Public

My Commission Expires November 15, 1954

My Commission expires

Hobbs, New Mexico March 12, 1951
Place Date

Name

Position Field Engineer

Representing Stanolind Oil and Gas Company
Company or Operator

Address Box "F", Hobbs, New Mexico

Form C-103

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

RECEIVED FEB 23 19.. OIL CONSERVATION COMMISSION HOBBS, OFFICE

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF	X	REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL			

February 21, 1951 - Hobbs, New Mexico
Date Place

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO
Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the

Stanolind Oil and Gas Company G. M. Cone "A" Well No. 1 in the
Company or Operator Lease

NW/4 of Sec. 12, T. 20-S, R. 38-E, N. M. P. M.,

House Field, Lea County.

The dates of this work were as follows: February 19, 1951

Notice of intention to do the work was (~~was not~~) submitted on Form C-102 on Feb. 19 19 51

and approval of the proposed plan ~~was~~ (was not) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

At 9:30 A. M. February 19, 1951, 48 hours after cementing the 5-1/2" liner from 7032' to 4206' with 100 sacks neat and 200 sacks gel cement, the casing was tested with 1025 psi for 30 minutes. The pressure remained constant.

After drilling 44' of solid cement and just prior to drilling the shoe, the casing was tested again. 1050 psi was held on the csg. for 30 minutes with no drop indicated. Completion operations were resumed.

Witnessed by T. S. Holden - Stanolind Oil and Gas Co. - Head Roustabout
Name Company Title

Subscribed and sworn before me this 21st day of February 19 51

Notary Public

My commission expires

I hereby swear or affirm that the information given above is true and correct.

Name R. Colcartright Jr.

Position Field Engineer

Representing Stanolind Oil and Gas Company
Company or Operator

Address Box "F", Hobbs, New Mexico

Remarks:

FEB 23 1951

Roy Yarbrough
Name

Title

Injection Permit Checklist (7/8/08)

Case _____ R- _____ SWD 1189 WFX _____ PMX _____ IPI _____ Permit Date _____ UIC Qtr I F M

Wells ___ Well Name: HOUSE SWD #1

API Num: (30-) 025-39193 Spud Date: ~~New~~ New/Old: N (UIC primacy March 7, 1982)

Footages 990 FSL / 500 FWL Unit M Sec 12 Tsp 20S Rge 38E County Lea

Operator: APACHE CORP Contact SOPHIE MACKAY

OGRID: 873 RULE 40 Compliance (Wells) 6/15TD (Finan Assur) OK

Operator Address: 6120 S. Yale Ave, Suite 1500, Tulsa, OK 74136-4224

Current Status of Well: Will be Drilled 4 INJECTION

Planned Work to Well: Drill & inject Planned Tubing Size/Depth: 3 1/2 @ 4550'

	Sizes Hole.....Pipe	Setting Depths	Cement Sx or Cf	Cement Top and Determination Method
~~Existing~~ ___ Surface	12 1/4 9 5/8	1600	500	CIRC
~~Existing~~ ___ Intermediate	8 3/8 7"	4600	1200	CIRC
~~Existing~~ ___ ~~Long String~~	~~6 3/4~~	4600-5500		
~~DV Tool~~	~~Liner~~	Open Hole 6 1/8"	~~Total Depth~~	~~PBTD~~

New New 4

Well File Reviewed ✓

Diagrams: ~~Before Conversion~~ ___ After Conversion ✓ Elogs in Imaging File: None

Intervals:	Depths	Formation	Producing (Yes/No)
Above (Name and Top)			
Above (Name and Top)	4250	SA Top	
Injection..... Interval TOP:	4600 to SA.		No
Injection..... Interval BOTTOM:	5500 to SA.		No
Below (Name and Top)	5615	Glor.	

Near TEXAS East Line of NM

920 PSI Max. WHIP

Open Hole (Y/N)

Deviated Hole?

4600 - 920 = 3680

Sensitive Areas: ~~Capitan Reef~~ ~~Cliff House~~ Salt Depths 1625-2710 ≈

~~Potash Area (R-111-P)~~ ~~Potash Lessee~~ ~~Noticed?~~

Fresh Water: Depths: 0-90' Wells(Y/N) Yes Analysis Included (Y/N): ✓ Affirmative Statement ✓

Salt Water: Injection Water Types: SA Analysis?

Injection Interval.....Water Analysis: Hydrocarbon Potential None

Blinebry / Tubb / Drinkard

Notice: Newspaper(Y/N) ✓ Surface Owner APACHE Mineral Owner(s)

RULE 701B(2) Affected Parties: Western Equity Co.

Ray Pierce

Area of Review: Adequate Map (Y/N) ✓ and Well List (Y/N) ✓

Active Wells 26 Num Repairs 0 Producing in Injection Interval in AOR No

..P&A Wells 2 Num Repairs 0 All Wellbore Diagrams Included? Yes

No Logs

Questions to be Answered:

Required Work on This Well: _____ Request Sent _____ Reply: _____

AOR Repairs Needed: _____ Request Sent _____ Reply: _____

_____ Request Sent _____ Reply: _____