

DATE IN 7/28/99	SUSPENSE 8/17/99	ENGINEER BS	LOGGED MV	TYPE CTB PC
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ABOVE THIS LINE FOR DIVISION USE ONLY

1000

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

Application Acronyms:

[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]
 [DD-Directional Drilling] [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 - Directional Drilling

☐ NSL ☐ NSP ☐ DD ☐ SD

Check One Only for [B] and [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

[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] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

Larry Tarwater

Larry Tarwater

Production Engineer

7-27-99

Print or Type Name

Signature

Title

Date



Home-Stake Oil & Gas Company

15 East 5th Street, Suite 2800
Tulsa, Oklahoma 74103-4311

(918) 583-0178
(800) 677-0178
FAX - (918) 583-0237
Internet - www.home-stake.com

July 27, 1999

Mr. Mark Ashley
New Mexico Oil Conservation Division
2040 S. Pacheco Street
Santa Fe, NM 87505

RE: Application to Surface Commingle Sarah Johnston #1 & #2
UL "O" and "J" Sec 22-22S-37E
Lea County, New Mexico
L1711020W

Dear Mr. Ashley:

Since Ben Stone is out this week I have Fed-Ex'd this application to your attention. Home-Stake operates the Sarah Johnston #1 - formerly Sarah Wallace #1 (Fusselman) and Sarah Johnston #2 (Drinkard) and is hereby applying for permission to surface commingle the wells into a common production facility located adjacent to Sarah Johnston #1. Royalty owners are the same for each well and have been notified of our application. Enclosed please find the following:

- Administration Application Coversheet
- Summary of Completion Information on each well
- Plat locating both wells, spacing units and lease boundary.
- Diagram of surface production facility (tank battery)

For each well, the following forms are also enclosed:

- Form C-102 - Well Location Plat
- Form C-103 - Sundry Notices for each string of casing
- Form C-104 - Request for New Well Allowable
- Form C-105 - Well Completion Report
- Deviation Surveys

We are eager for approval of this application so we can sell commingled oil and not have to shut in wells for lack of tank room. If you have any questions please contact me at (918) 583-0178 ext. 17. Thank you.

Sincerely,

Larry Tarwater
Production Engineer

attach

99 JUN 28 AM 9:23
OIL CONSERVATION DIV.



HOME-STAKE OIL & GAS COMPANY
Application for Permission to Surface Commingle
Sarah Johnston #1 & #2 in Common Facilities

WELL: SARAH JOHNSTON #1

SURFACE LOCATION: UL 'O' Sec 22-T22S-R37E

SPOT: 800' FSL 2040' FEL of Sec 22

COUNTY/STATE: Lea County, New Mexico

Bottom Hole Location: N/A (Straight Hole)

Pool: South McCormack, Silurian

Pool Code: 45430

API No.: 30-025-34497

Property Code: 23630

Producing Formation: Fusselman (7188-7208')

TD: 7360'

Spud Date: 9/14/98

Completion Date: 10/31/98

SARAH JOHNSTON #2

UL 'J' Sec 22-T22S-R37E

1600' FSL 2288' FEL of Sec 22

Lea County, New Mexico

1516' FSL & 2349' FEL @ 6422'MD

South McCormack, Silurian

45430

30-025-34611

23630

Drinkard (6350-6493')

7475'

5/7/99

7/26/99

Oil Gravity: 42.7 deg API, sweet

Oil Classification: Intermediate

Production: 65 BOPD, 80 MCFD

Value of Oil: \$16.55/bbl (June 99)

Oil Purchaser: Sunoco Inc. (R & M)

Gas Purchaser: GPM Gas Corp.

38.8 deg API, sweet

Intermediate

126 BOPD, 435 MCFD

Same as #1 - WTI + \$1.40

Sunoco Inc. (R & M)

GPM Gas Corp.

COMMINGLED PRODUCTION

Expected Gravity:

40.1 deg API, sweet

Expected Classification:

Intermediate

Expected Production:

191 BOPD, 515 MCFD

Expected Value of Oil:

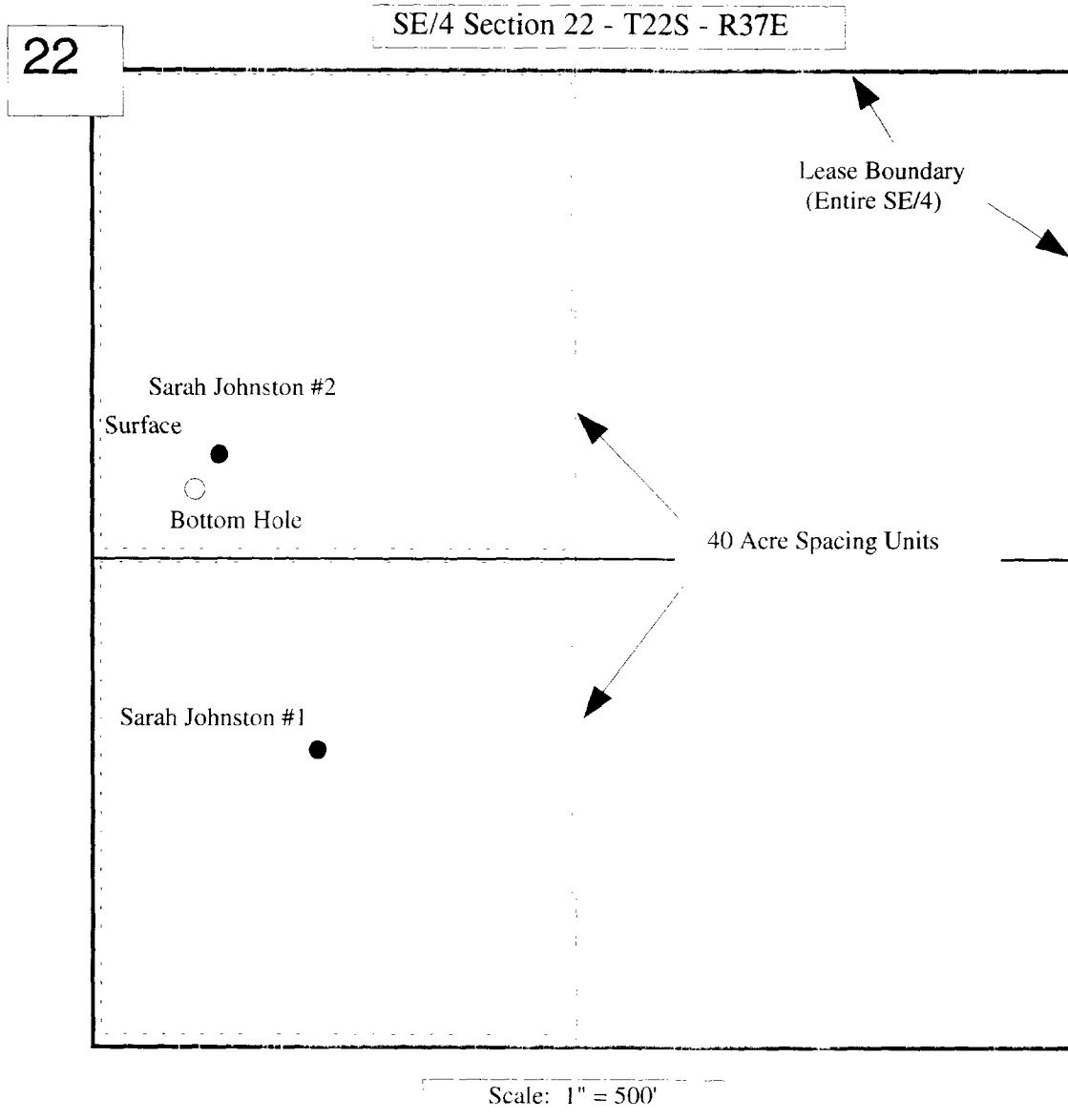
West Texas Intermediate + \$1.40



HOME-STAKE OIL & GAS COMPANY
Application for Permission to Surface Commingle
Sarah Johnston #1 & #2 in Common Facilities

WELL: SARAH JOHNSTON #1
SURFACE LOCATION: UL 'O' Sec 22-T22S-R37E
SPOT: 800' FSL 2040' FEL of Sec 22
COUNTY/STATE: Lea County, New Mexico
Bottom Hole Location: N/A (Straight Hole)
Pool: South McCormack, Silurian
Pool Code: 45430
API No.: 30-025-34497
Property Code: 23630
Producing Formation: Fusselman (7188-7208')
TD: 7360'
Spud Date: 9/14/98
Completion Date: 10/31/98

SARAH JOHNSTON #2
UL 'J' Sec 22-T22S-R37E
1600' FSL 2288' FEL of Sec 22
Lea County, New Mexico
1516' FSL & 2349' FEL @ 6422' MD
South McCormack, Silurian
45430
30-025-34611
23630
Drinkard (6350-6493')
7475'
5/7/99
7/26/99

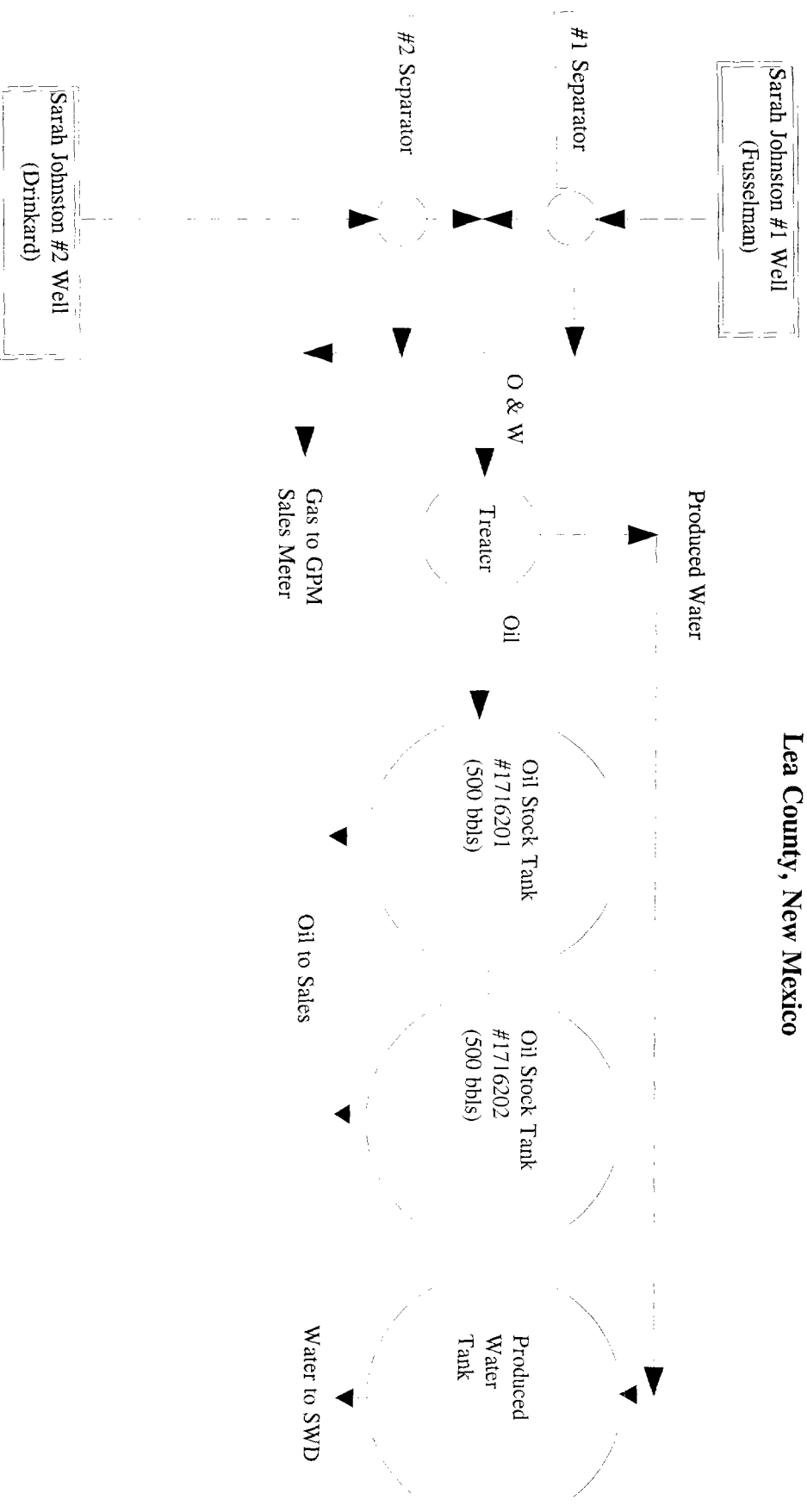




HOME-STAKE OIL & GAS COMPANY
Application for Permission to Surface Commingle
Sarah Johnston #1 & #2 in Common Facilities

Schematic of Surface Facilities

Tank Battery Located Adjacent to Sarah Johnston #1 Well
UL 'O' Section 22 - T22S - R37E
Lea County, New Mexico



DISTR I
P. O. Box 1980
Hobbs, NM 88241-1980

State of New Mexico
Energy, Minerals, and Natural Resources Department

Sarah Johnston #1

DISTRICT II
P. O. Drawer DD
Artesia, NM 88211-0719

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

(Formerly Sarah
Wallace #1)

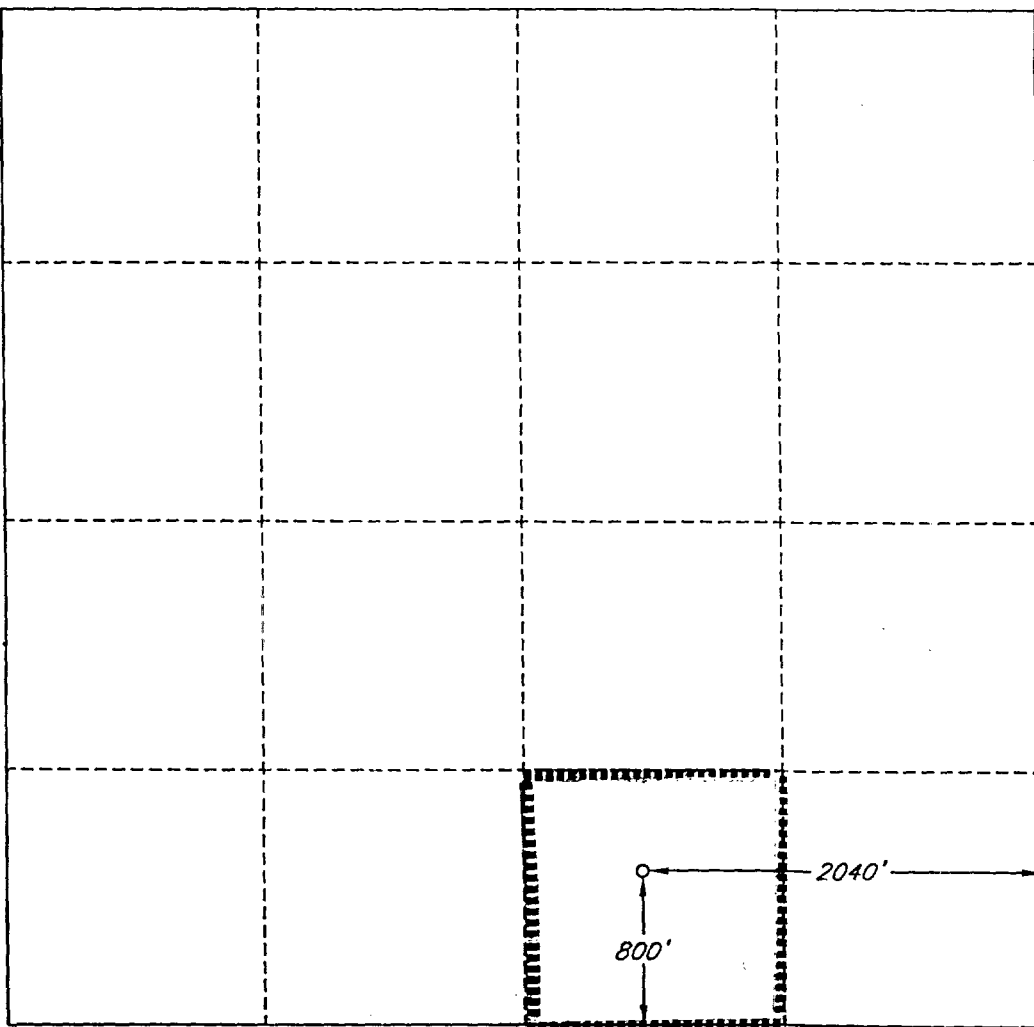
DISTRICT III
1000 Rio Brazos Rd.
Aztec, NM 87410

DISTRICT IV
P. O. Box 2088
Santa Fe, NM 87507-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number		2 Pool Code 8005		3 Pool Name BRUNSON (FUSSELMAN)					
4 Property Code		5 Property Name JOHNSON 22 SARAH WALLACE				6 Well Number 1			
7 GRID No.		8 Operator Name HOME-STAKE OIL & GAS COMPANY				9 Elevation 3346'			
10 SURFACE LOCATION									
UL or lot no. 0	Section 22	Township 22 SOUTH	Range 37 EAST, N.M.P.M.	Lot Ida	Feet from the 800'	North/South line SOUTH	Feet from the 2040'	East/West line EAST	County LEA
"BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE									
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acres 40		13 Joint or Infill N		14 Consolidation Code N/A		15 Order No. N/A			

NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

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

Signature

Printed Name

HOWARD E. GRAY

Title

VICE-PRESIDENT - OPERATIONS

Date

AUGUST 25, 1998

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey

AUGUST 21, 1998

Signature and Seal of Professional Surveyor

ROGER M. ROBBINS
REGISTERED PROFESSIONAL SURVEYOR
12128
Certificate No.
ROGER M. ROBBINS P.S. #12128
JOB # 60082 / 45 SW / JSJ

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

2040 Pacheco St.
Santa Fe, NM 87505

WELL API NO. 30-025-34497
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
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.)

1. Type of Well:
OIL WELL ☐ GAS WELL ☐ OTHER DRILLING WELL

2. Name of Operator
HOME-STAKE OIL & GAS COMPANY

3. Address of Operator
15 E. 5th Street, Suite 2800, Tulsa, OK 74103-4311

4. Well Location
Unit Letter 0 : 800 Feet From The South Line and 2040 Feet From The East Line
Section 22 Township 22S Range 37E NMPM Lea County

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

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐
CASING REGRIND AND CEMENT JOB ☒
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.

A 7-7/8" hole was drilled to 7360' and 5-1/2" 15.5# K-55 casing was set at T.D. Stage cementing tool was ran @ 5199'. Casing was cemented through casing shoe w/485 sx Class 'C' 50-50 Poz (14.8 PPG) and with 765 sx Class 'C' (14.3 PPG)+ 150 sx @ (14.8) through stage tool. Circulate 5 bbls cement to surface. Release rotary rig. Will run Cement Bond log at completion.

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

SIGNATURE Howard E. Gray TITLE Vice-President of Operations DATE 10-2-98
TYPE OR PRINT NAME Howard E. Gray (918) 583-0178 TELEPHONE NO.

(This space for State Use)

ORIGINAL SIGNED BY CHRIS WILLIAMS
DISTRICT I SUPERVISOR

APPROVED BY _____ TITLE _____ DATE OCT 15 1998
CONDITIONS OF APPROVAL, IF ANY:

District Office

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



CONSERVATION DIVISION

2040 Pacheco St.

Santa Fe, NM 87505

WELL API NO.

30-025-34497

5. Indicate Type of Lease

STATE ☐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.)

1. Type of Well:

OIL WELL ☐GAS WELL ☐OTHER ☒ Drilling Well

2. Name of Operator

HOME-STAKE OIL & GAS COMPANY

3. Address of Operator

15 E. 5th Street, Suite 2800, Tulsa, OK 74103-4311

4. Well Location

Unit Letter 0 : 800 Feet From The South Line and 2040 Feet From The East LineSection 22 Township 22S Range 37E NMPM LEA County

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

3346' GL

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐PLUG AND ABANDON ☐TEMPORARILY ABANDON ☐CHANGE PLANS ☐PULL OR ALTER CASING ☐OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐CASING TEST AND CEMENT JOB ☒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.

A 17-1/2" hole was drilled to 445' and 13-3/8" 48# N-40 casing was set @ TD. The casing was cemented by B-J Services w/440 sx Class "C" cement w/2% CACL2 (Yield 1.35 cf/sk, 14.8 PPG wt). Displaced to shoe w/62 bbls water. Circulated 51 sx cement to surface. Plug down @ 2:15 PM 9-15-98. W. O. C. 16 hrs. Test casing and B.O.P. to 750 PSI. Estimated temperature of slurry at surface = 70 degrees; Estimated temperature @ 445' = 64 degrees; Estimated compressive strength 1900 PSI/16 hrs. (Per B-J Services charts)

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

SIGNATURE

TITLE Vice-President of Operations

DATE 9-16-98

TYPE OR PRINT NAME

Howard E. Gray

(918) 583-0178

TELEPHONE NO.

(This space for State Use)

APPROVED BY

Paul Kautz
Geologist

TITLE

DATE

OCT 14 1998

CONDITIONS OF APPROVAL

OCT 14 1998

Office

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240DISTRICT II
P.O. Drawer DD, Artesia, NM 88210DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410OIL CONSERVATION DIVISION
2040 Pacheco St.
Santa Fe, NM 87505

WELL API NO.

30-025-34497

5. Indicate Type of Lease

STATE ☐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.)

1. Type of Well:

OIL WELL ☐GAS WELL ☐OTHER ☐ Drilling Well

2. Name of Operator

HOME-STAKE OIL & GAS COMPANY

3. Address of Operator

15 E. 5th Street, Suite 2800, Tulsa, OK 74103-4311

4. Well Location

Unit Letter 0 : 800 Feet From The South Line and 2040 Feet From The East Line

Section 22

Township 22S

Range 37E

NMPM

Lea

County

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

3246' GL

7. Lease Name or Unit Agreement Name

SARAH WALLACE

8. Well No.

1

9. Pool name or Wildcat

McCormack; Silurian, South

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐PLUG AND ABANDON ☐TEMPORARILY ABANDON ☐CHANGE PLANS ☐PULL OR ALTER CASING ☐OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐CASING TEST AND CEMENT JOB ☒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.

An 11" hole was drilled to 3395' and 8-5/8" 32# J-55 casing was set @ TD. The casing was cemented by B-J Services cemented w/600 sx 35/65 Poz Class 'C' cement w/6% gel, 5% salt, 0.25 lb/sk celloflake (Yield = 1.90 & Wt. = 1.28 PPG) followed by 200 sx Class 'C' w/1% CACL2 (Yield 1.34 & Wt. = 14.8 PPG). Total barrels slurry = 240 bbls. Displaced to shoe w/204 barrels water. Plug down @ 7:20 PM 9/19/98. W. O. C. 14-1/2 hrs. Test casing and B.O.P. to 1000 PSI. Estimated temperature of slurry @ surface = 70 degrees. Estimated temperature @ 3395' = 93 degrees. Estimated compressive strength 1100 PSI/14-1/2 hrs. (Per B-J Services Charts).

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

SIGNATURE

Vice-President of Operations

DATE 9-21-98

TYPE OR PRINT NAME

Howard E. Gray

(918) 583-0178

TELEPHONE NO.

(This space for State Use)

Orig. Signed by
Paul Kautz
Geologist

APPROVED BY

TITLE

DATE

OCT 14 1998

CONDITIONS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

☒ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

Operator name and Address Home-Stake Oil & Gas Company 15 East 5th Street, Suite 2800 Tulsa, Oklahoma 74103		OGRID Number 163123
Reason for Filing Code THIS WELL HAS BEEN PLACED IN THE FOOT DESIGNATED BELOW. IF YOU DO NOT CONCU NDRY THIS OFFICE.		Change Property Name
API Number 30-0 25-34497	Pool Name McCormack; Silurian, South	Pool Code 45430
Property Code 23630	Property Name Formerly Sarah Johnston Sarah Wallace	Well Number "1"

II. ¹⁰ Surface Location

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
0	22	22S	37E		800	South	2,040'	East	Lea

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Lee Code P	Producing Method Code F	Gas Connection Date 10/30/98	C-129 Permit Number NA	C-129 Effective Date NA	C-129 Expiration Date NA				

III. Oil and Gas Transporters

Transporter OGRID	Transporter Name and Address	POD	O/G	POD ULSTR Location and Description
021778	SUN COMPANY, INC. 1004 N. Big Spring Midland, TX 79701	282217D	O	UL "O" Sec. 22-T22S-R37E
009171	GPM GAS CORPORATION 4044 Penbrook Odessa, TX 79762	282217I	G	UL "O" Sec. 22-T22S-R37E

IV. Produced Water

POD	POD ULSTR Location and Description
2822172	Tank battery water tank.

V. Well Completion Data

Spud Date	Ready Date	TD	PBTD	Perforations	DHC, DC, MC
09/14/98		7360	7268	7188-7202	N/A
Hole Size	Casing & Tubing Size	Depth Set	Sacks Cement		
17-1/2"	13-3/8"	445	440 SX		
11"	8-5/8"	3395	800 SX		
7-7/8"	5-1/2"	7360	1250 SX		
	2-7/8"	7130	NA		

VI. Well Test Data

Date New Oil	Gas Delivery Date	Test Date	Test Length	Tbg. Pressure	Cup. Pressure
10-6-98	10-30-98	11-1-98	24 hrs	525 PSI FTP	0 PSI
Choke Size	Oil	Water	Gas	AOF	Test Method
8/64"	78	-0-	114	NA	F

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Printed name:

Title:

Date:

Larry Tarwater

Production Engineer

11-4-98

Phone: (918) 583-0178

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

FEB 22 1999

* If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature

Printed Name

Title

Date

Submit to Appropriate
District Office:
State Lease - 6 copies
Fee Lease - 5 copies
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

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 Pacheco St.
Santa Fe, NM 87505

Form C-105
Revised 1-1-89

WELL API NO. 30-025-34497
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG					
1a. Type of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____				7. Lease Name or Unit Agreement Name Sarah Wallace	
b. Type of Completion: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. REVEAL <input type="checkbox"/> OTHER _____					
2. Name of Operator ✓ Home-Stake Oil & Gas Company				8. Well No. "1"	
3. Address of Operator 15 East 5th Street, Suite 2800; Tulsa, OK 74103				9. Pool name or Wildcat McCormack; Silurian, South	
4. Well Location Unit Letter <u>O</u> : <u>800</u> Feet From The <u>South</u> Line and <u>2040</u> Feet From The <u>East</u> Line Section <u>22</u> Township <u>22S</u> Range <u>37E</u> NMPM Lea County					
10. Date Spudded 09/14/98	11. Date T.D. Reached 09/27/98	12. Date Compl. (Ready to Prod.) 10/31/98	13. Elevations (DF & RKB, RT, GR, etc.) 3346 GL, 3363 DF, 3364 KB	14. Elev. Casinghead 3346	
15. Total Depth 7360'	16. Plug Back T.D. 7268'	17. If Multiple Compl. How Many Zones? NA	18. Intervals Drilled By Rotary Tools O-B60	Cable Tools NA	
19. Producing Interval(s), of this completion - Top, Bottom, Name 7188 - 7202 Fusselman				20. Was Directional Survey Made No	
21. Type Electric and Other Logs Run Density/Neutron, Caterolog, Sonic				22. Was Well Cored No	
23. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLE
13-3/8	48.0# H-40	445	17-1/2"	440 SX Class "C"	"O"
8-5/8	32.0# J-55	3395	11"	800 SX Class "C"	"O"
5-1/2	15.5# K-55	7360	7-7/8"	485 SX Class "C" (Shot)	"O"
				765 SX Class "C" (OV-5199)	
24. LINER RECORD					
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	PACKER SE
26. Perforation record (interval, size, and number)			27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC		
			DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED	
			7188-7202	1000 Gal 15% HCL	
28. PRODUCTION					
Date First Production 10/05/98		Production Method (Flowing, gas lift, pumping - Size and type pump) F			Well Status (Prod. or Shut-in) P
Date of Test 11/1/98	Hours Tested 24	Choke Size 8/64"	Prod'n For Test Period	Oil - Bbl 78	Gas - MCF 114
Flow Tubing Press. 525	Casing Pressure 0	Calculated 24-Hour Rate	Oil - Bbl 78	Gas - MCF 114	Water - Bbl 0
				Gas - Oil Rat 1462	
29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold				Test Witnessed By W. Dean	
30. List Attachments (Logs previously submitted)					
31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief					
Signature <u>Larry Tarwater</u>		Printed Name <u>LARRY Tarwater</u>		Title <u>Prod Engr</u>	Date <u>11/12/9</u>

INSTRUCTION

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

T. Anhy _____
 T. Salt _____
 B. Salt _____
 T. Yates _____
 T. 7 Rivers _____
 T. Queen _____
 T. Grayburg _____
 T. San Andres 3975
 T. Glorieta 5062
 T. Paddock 5200
 T. Blinberry 5418
 T. Tubb 6004
 T. Drinkard 6383
 T. Abo 6820
 T. Wolfcamp _____
 T. Perm _____
 T. Cisco (Bough C) _____

T. Canyon _____
 T. Strawn _____
 T. Atoka _____
 T. Miss _____
 T. Devonian _____
 T. Silurian 7118
 T. Montoya 7218
 T. Simpson _____
 T. McKee _____
 T. Ellenburger _____
 T. Gr. Wash _____
 T. Delaware Sand _____
 T. Bone Springs _____
 T. _____
 T. _____
 T. _____
 T. _____

Northwestern New Mexico

T. Ojo Alamo _____
 T. Kirtland-Fruitland _____
 T. Pictured Cliffs _____
 T. Cliff House _____
 T. Menefee _____
 T. Point Lookout _____
 T. Mancos _____
 T. Gallup _____
 Base Greenhorn _____
 T. Dakota _____
 T. Morrison _____
 T. Todilto _____
 T. Entrada _____
 T. Wingate _____
 T. Chinle _____
 T. Permian _____
 T. Perm "A" _____

T. Perm. "B" _____
 T. Perm. "C" _____
 T. Perm. "D" _____
 T. Leadville _____
 T. Madison _____
 T. Elbert _____
 T. McCracken _____
 T. Ignacio Otzie _____
 T. Granite _____
 T. _____
 T. _____
 T. _____
 T. _____
 T. _____
 T. _____
 T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from 7118 to 7208
 No. 2, from 6383 to 6423
 No. 3, from 6004 to 6050
 No. 4, from 5730 to 5794
 No. 5, from 5062 to 5090
 No. 6, from 3990 to 4157

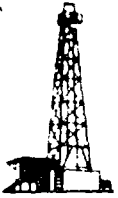
IMPORTANT WATER SANDS

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

No. 1, from _____ to _____ feet
 No. 2, from _____ to _____ feet
 No. 3, from _____ to _____ feet

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology	From	To	Thickness in Feet	Lithology
Surface	700	700	Sand and conglomerate				
700	2500	1800	Shales and anhydrites				
2500	3540	1040	Anhydrites and dolomite				
3540	4400	860	Dolomite				
4400	5600	1200	Dolomite and anhydrites				
5600	6530	930	Dolomite				
6530	6660	130	Limestone				
6660	7118	458	Dolomite				
7118	7208	90	Chert and Dolomite				
7208	7360	152	Dolomite				



Patterson Drilling Company

410 N. Loraine Street — (915) 682-9401
Midland, Texas 79701

October 6, 1998

Home-Stake Oil & Gas Company
15 E. 5th St., Ste. 2800
Tulsa, OK 74103-4311

RE: Deviation Report
Sarah Wallace #1-22

Gentlemen:

The following is a deviation survey on the above referenced well located in Lea County,
New Mexico.

445' - 0.50°	4217' - 0.50°
902' - 0.75°	4687' - 0.50°
1399' - 0.75°	5126' - 0.75°
1874' - 0.75°	5407' - 1.00°
2337' - 1.25°	5878' - 1.00°
2714' - 1.00°	6471' - 0.75°
2995' - 1.25°	6996' - 1.25°
3395' - 1.25°	7360' - 1.50°
3779' - 0.50°	

Sincerely,

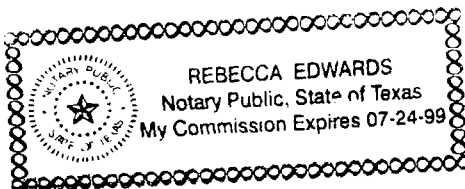
Treva Forrester

STATE OF TEXAS)
)
COUNTY OF MIDLAND)

The foregoing was acknowledged before me this 6th day of October, 1998 by
Treva Forrester.

MY COMMISSION EXPIRES:

NOTARY PUBLIC



TRICT I
O. Box 1980
bs, NM 88241-1980

State of New Mexico
Energy, Minerals, and Natural Resources Department

Form C-102
Revised 02-10-94

Instructions on back

TRICT II
O. Drawer DD
esia, NM 88211-0719

OIL CONSERVATION DIVISION

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

Submit to the Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

TRICT III
30 Rio Brazos Rd.
ec, NM 87410

☐ AMENDED REPORT

TRICT IV
O. Box 2088
nta Fe, NM 87507-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

UPI Number 0-025-34611	* Pool Code 45430	* Pool Name McCORMACK, SILURIAN SOUTH
Property Code 16312323630	* Property Name SARAH JOHNSTON	* Well Number 2
XGRID No. 163123	* Operator Name HOME-STAKE OIL & GAS COMPANY	* Elevation 3351'

" SURFACE LOCATION

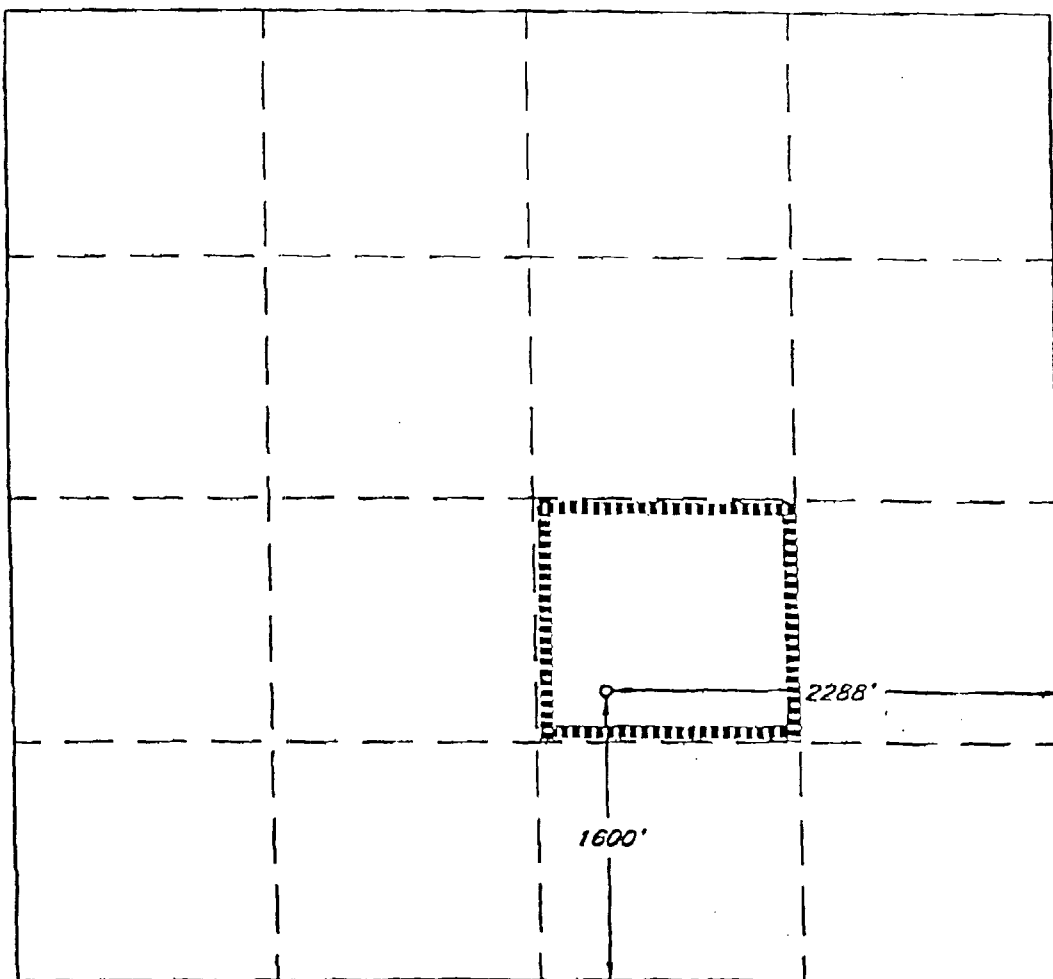
Lot or lot no. 1	Section 22	Township 22 SOUTH	Range 37 EAST, N.M.P.M.	Lot Ida	Feet from the 1600'	North/South line SOUTH	Feet from the 2288'	East/West line EAST	County LEA
---------------------	---------------	----------------------	----------------------------	---------	------------------------	---------------------------	------------------------	------------------------	---------------

"BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE

Lot or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
----------------	---------	----------	-------	---------	---------------	------------------	---------------	----------------	--------

Dedicated Acres 40	* Joint or Infill	* Consolidation Code	* Order No.
-----------------------	-------------------	----------------------	-------------

NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN
CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

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

Signature
Printed Name
Larry Tarwater
Title
Production Engineer
Date
April 6, 1999

SURVEYOR CERTIFICATION

I hereby certify that the well
location shown on this plat was
plotted from field notes of actual
surveys made by me or under
my supervision, and that the
same is true and correct to the
best of my belief.

Date of Survey
Signature
Professional Surveyor
12128
Certificate No.
ROGER M. ROBBINS P.S. #12128
10R 462173 / 45 SW / VHR

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
2040 Pacheco St.
Santa Fe, NM 87505

WELL API NO. 30-025-34611
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name SARAH JOHNSTON
8. Well No. "2"
9. Pool name or Wildcat McCormack, (Silurian, South)

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. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER DRILLING WELL
2. Name of Operator HOME-STAKE OIL & GAS COMPANY
3. Address of Operator 15 East 5th Street, Suite 2800; Tulsa, OK 74103-4311
4. Well Location Unit Letter J : 1600' Feet From The South Line and 2288' Feet From The East Line Section 22 Township 22 South Range 37 East NMPM Lea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)
3351' GR 3369' KB

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input checked="" type="checkbox"/>
OTHER: <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
	CASING TEST AND CEMENT JOB <input checked="" type="checkbox"/>
	OTHER: <input type="checkbox"/>

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.

Spud date: 11:30 pm 5/6/1999.
17-1/2" hole drilled to 400'.
13-3/8" 48# H-40 surface casing was set @ 397' & cemented by B-J Services with 440 sacks CI 'C' cmt w/
2% CaCl (yield 1.35 cf/sk, 14.8 ppg.)
Displaced to shoe w/ 58 bbls water. Circulated 60 sacks cement to pit. Plug down at 6:15 pm 5/7/1999.
WOC 16-1/2 hrs. Tested casing and BOP to 1000 psi. Estimated temperature of slurry at surface = 70
degrees. Estimated temperature @ 400' = 63 degrees. Estimated compressive strength = 1900 psi /16 hrs -
per BJ Services charts.

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

SIGNATURE Larry Tarwater TITLE Production Engineer DATE 7-26-99
TYPE OR PRINT NAME Larry Tarwater TELEPHONE NO. 583-0178 x17

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

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
2040 Pacheco St.
Santa Fe, NM 87505

WELL API NO. 30-025-34611
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
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.)	
1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> DRILLING WELL	7. Lease Name or Unit Agreement Name SARAH JOHNSTON
2. Name of Operator HOME-STAKE OIL & GAS COMPANY	8. Well No. "2"
3. Address of Operator 15 East 5th Street, Suite 2800; Tulsa, OK 74103-4311	9. Pool name or Wildcat McCormack, (Silurian, South)
4. Well Location Unit Letter <u>J</u> : <u>1600'</u> Feet From The <u>South</u> Line and <u>2288'</u> Feet From The <u>East</u> Line Section <u>22</u> Township <u>22 South</u> Range <u>37 East</u> NMPM Lea County	
10. Elevation (Show whether DF, RKB, RT, GR, etc.) <u>3351' GR</u> <u>3369' KB</u>	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
OTHER: <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
	CASING TEST AND CEMENT JOB <input checked="" type="checkbox"/>
	OTHER: <input type="checkbox"/>

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.

11" hole drilled to 3425'.

8-5/8" 32# J-55 intermediate casing was set @ 3400' & cemented by B-J Services with 600 sacks 35/65 Poz/Class 'C' cmt w/ 6% gel, 5% NaCl, (yield 1.90 cf/sk, 12.8 ppg.) plus 200 sacks Class 'C' cement w/ 1% CaCl, (yield 1.34 cf/sk, 14.8 ppg.) Total slurry = 240 bbls.

Displaced to shoe w/ 204 bbls water. Plug down @ 1:30 pm 5/12/1999. Did not circulate cement to surface. WOC 14-1/2 hrs. Tested casing and BOP to 1200 psi. Estimated temperature of slurry at surface = 70 degrees. Estimated temperature @ 3400' = 93 degrees. Estimated compressive strength = 1100 psi /14-1/2 hrs - per BJ Services charts.

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

SIGNATURE [Signature] TITLE Production Engineer DATE 7-26-99
TYPE OR PRINT NAME Larry Tarwater TELEPHONE NO. 583-0178 x17

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

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
2040 Pacheco St.
Santa Fe, NM 87505

WELL API NO. 30-025-34611
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name SARAH JOHNSTON
8. Well No. "2"
9. Pool name or Wildcat McCormack, (Silurian, South)

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. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER DRILLING WELL	
2. Name of Operator HOME-STAKE OIL & GAS COMPANY	
3. Address of Operator 15 East 5th Street, Suite 2800; Tulsa, OK 74103-4311	
4. Well Location Unit Letter <u>J</u> : <u>1600'</u> Feet From The <u>South</u> Line and <u>2288'</u> Feet From The <u>East</u> Line Section <u>22</u> Township <u>22 South</u> Range <u>37 East</u> NMPM <u>Lea</u> County	
10. Elevation (Show whether DF, RKB, RT, GR, etc.) <u>3351' GR</u> <u>3369' KB</u>	

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐
~~CASING TEST~~ AND CEMENT JOB ☒
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.

7-7/8" hole drilled to 7300' and electric logs run.

Cement plug spotted through open-ended drill pipe from 5904 to 5300' with 370 sacks CI 'H' cement, (yield 0.89 cf/sk, 18 ppg.) WOC 31 hrs. Dressed off top of cmt plug 5266-5305'.

Directionally drilled 7-7/8" hole to southwest to 7475' TD (see directional survey) and re-ran electric logs on 6/7/1999.

Ran 5-1/2" 15.5# K-55 production casing and set @ 7472'. Cemented 1st stage with 230 sacks CI 'C', (1.38 cf/sk, 14.8 ppg, 56 bbls slurry.) Displaced with 36 bbls water + 140 bbls mud. Cemented 2nd stage through stage collar @ 5882' with 725 sacks CI 'C' cement (1.38 cf/sk, 14.8 ppg) and displaced plug with 140 bbls water. Bumped plug w/ 3000 psi. Released drilling rig 10 pm, 6/7/1999.

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

SIGNATURE

Larry Tarwater

TITLE

Production Engineer

DATE

7-26-99

TYPE OR PRINT NAME

Larry Tarwater

TELEPHONE NO. 583-0178 x17

(This space for State Use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-104

Revised October 18, 1994

Instructions on back

Submit to Appropriate District Office

5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

Operator name and Address Home-Stake Oil & Gas Company 15 E. 5th Street, Suite 2800 Tulsa, Ok. 74103		OGRID Number 163123
		Reason for Filing Code NW
API Number 30 - 0 25-34611	Pool Name South McCormack, Silurian	Pool Code 45430
Property Code 23630	Property Name Sarah Johnston	Well Number 2

II. Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
J	22	22S	37E		1600	South	2288	East	Lea

Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	22	22S	37E		1516	South	2349	East	Lea
Lee Code P	Producing Method Code F	Gas Connection Date 7/23/99	C-129 Permit Number N/A	C-129 Effective Date N/A	C-129 Expiration Date N/A				

III. Oil and Gas Transporters

Transporter OGRID	Transporter Name and Address	POD	O/G	POD ULSTR Location and Description
021778	Sunoco (R&M) 1004 N. Big Spring Midland, TX 79701	282 3631	D	UL '0' Sec 22-T22S-R37E Sarah Johnston #1 Tank Battery
009171	GPM Gas Corporation 4044 Penbrook Odessa, TX 79762	282 3632	G	UL '0' Sec 22-T22S-R37E Sarah Johnston #1 Tank Battery

IV. Produced Water

POD	POD ULSTR Location and Description
282 3633	Water Tank-Sarah Johnston #1 Tank Battery UL '0' Sec 22 T22s-R37E

V. Well Completion Data

Spud Date	Ready Date	TD	PBTD	Perforations	DHC, DC, MC
5/6/99	7/23/99	7475	7205	6350-6493	N/A
Hole Size	Casing & Tubing Size	Depth Set	Sacks Cement		
17 1/2"	13 3/8"	397'	440 SX		
11"	8 5/8"	3400'	800sx		
7 7/8"	5 1/2"	7472'	955/sx		
	2 7/8"	6305'	N/A		

VI. Well Test Data

Date New Oil	Gas Delivery Date	Test Date	Test Length	Tbg. Pressure	Csg. Pressure
7/23/99	7/23/99	7/25/99	24 hrs	100#	-0-
Choke Size	Oil	Water	Gas	AOI	Test Method
20/64"	126 Bbls	25 Bbls	435 MCF	-	F

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Printed name:

Larry Tarwater

Title:

Production Engineer

Date: 7-26-99

Phone: (918) 583-0178

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature

Printed Name

Title

Date

IF THIS IS AN AMENDED REPORT, CHECK THE BOX LABELED "AMENDED REPORT" AT THE TOP OF THIS DOCUMENT

Report all gas volumes at 15,025 PSIA at 60°.
Report all oil volumes to the nearest whole barrel.

A request for allowable for a newly drilled or deepened well must be accompanied by a tabulation of the deviation tests conducted in accordance with Rule 111.

All sections of this form must be filled out for allowable requests on new and recompleted wells.

Fill out only sections I, II, III, IV, and the operator certifications for changes of operator, property name, well number, transporter, or other such changes.

A separate C-104 must be filed for each pool in a multiple completion.

Improperly filled out or incomplete forms may be returned to operators unapproved.

1. Operator's name and address
2. Operator's OGRID number. If you do not have one it will be assigned and filled in by the District office.
3. Reason for filing code from the following table:
NW New Well
RC Recompletion
CH Change of Operator (Include the effective date.)
AO Add oil/condensate transporter
CO Change oil/condensate transporter
AG Add gas transporter
CG Change gas transporter
RT Request for test allowable (Include volume requested)
If for any other reason write that reason in this box.
4. The API number of this well
5. The name of the pool for this completion
6. The pool code for this pool
7. The property code for this completion
8. The property name (well name) for this completion
9. The well number for this completion
10. The surface location of this completion NOTE: If the United States government survey designates a Lot Number for this location use that number in the 'UL or lot no.' box. Otherwise use the OCD unit letter.
11. The bottom hole location of this completion
12. Lease code from the following table:
F Federal
S State
P Fee
J Jicarilla
N Navajo
U Ute Mountain Ute
I Other Indian Tribe
13. The producing method code from the following table:
F Flowing
P Pumping or other artificial lift
14. MO/DA/YR that this completion was first connected to a gas transporter
15. The permit number from the District approved C-129 for this completion
16. MO/DA/YR of the C-129 approval for this completion
17. MO/DA/YR of the expiration of C-129 approval for this completion
18. The gas or oil transporter's OGRID number
19. Name and address of the transporter of the product
20. The number assigned to the POD from which this product will be transported by this transporter. If this is a new well or recompletion and this POD has no number the district office will assign a number and write it here.
21. Product code from the following table:
O Oil
G Gas
22. The ULSTR location of this POD if it is different from the well completion location and a short description of the POD (Example: "Battery A", "Jones CPD", etc.)
23. The POD number of the storage from which water is moved from this property. If this is a new well or recompletion and this POD has no number the district office will assign a number and write it here.
24. The ULSTR location of this POD if it is different from the well completion location and a short description of the POD (Example: "Battery A Water Tank", "Jones CPD Water Tank", etc.)
25. MO/DA/YR drilling commenced
26. MO/DA/YR this completion was ready to produce
27. Total vertical depth of the well
28. Plugback vertical depth
29. Top and bottom perforation in this completion or casing shoe and TD if openhole
30. Write in 'DHC' if this completion is downhole commingled with another completion, 'DC' if this completion is one of two non-commingled completions in this well bore, or 'MC' if there are more than three non-commingled completions in this well bore.

31. Inside diameter of the well bore
 32. Outside diameter of the casing and tubing
 33. Depth of casing and tubing. If a casing liner show top and bottom.
 34. Number of sacks of cement used per casing string
- If the following test data is for an oil well it must be from a test conducted only after the total volume of load oil is recovered.
35. MO/DA/YR that new oil was first produced
 36. MO/DA/YR that gas was first produced into a pipeline
 37. MO/DA/YR that the following test was completed
 38. Length in hours of the test
 39. Flowing tubing pressure - oil wells
Shut-in tubing pressure - gas wells
 40. Flowing casing pressure - oil wells
Shut-in casing pressure - gas wells
 41. Diameter of the choke used in the test
 42. Barrels of oil produced during the test
 43. Barrels of water produced during the test
 44. MCF of gas produced during the test
 45. Gas well calculated absolute open flow in MCF/D
 46. The method used to test the well:
F Flowing
P Pumping
S Swabbing
If other method please write it in.
 47. The signature, printed name, and title of the person authorized to make this report; the date this report was signed, and the telephone number to call for questions about this report
 48. The previous operator's name, the signature, printed name, and title of the previous operator's representative authorized to verify that the previous operator no longer operates this completion, and the date this report was signed by that person

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

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 Pacheco St.

Santa Fe, NM 87505

Form C-105
Revised 1-1-89

WELL API NO. 30-025- 34611
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG							
1a. Type of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER <input type="checkbox"/>			7. Lease Name or Unit Agreement Name Sarah Johnston				
b. Type of Completion: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DRY RELIN <input type="checkbox"/> OTHER <input type="checkbox"/>							
2. Name of Operator Home-Stake Oil & Gas Company			8. Well No. 2				
3. Address of Operator 15 E. 5th Street, Suite 2800 Tulsa, OK. 74103			9. Pool name or Wildcat South McCormack, Silurian				
4. Well Location Unit Letter <u>J</u> : 1600 Feet From The <u>South</u> Line and 2288 Feet From The <u>East</u> Line Section <u>22</u> Township <u>22S</u> Range <u>37E</u> NMPM Lea County							
10. Date Spudded 5/7/99	11. Date T.D. Reached 6/6/99	12. Date Compl. (Ready to Prod.) 7/23/99	13. Elevations (DF & RKB, RT, GR, etc.) 3351' GL 3369' KB	14. Elev. Casinghead 3353'			
15. Total Depth 7475'	16. Plug Back T.D. 7205'	17. If Multiple Compl. How Many Zones? N/A	18. Intervals Drilled By Rotary Tools 0-TD	Cable Tools None			
19. Producing Interval(s), of this completion - Top, Bottom, Name Drinkard 6350'-6493'				20. Was Directional Survey Made Yes			
21. Type Electric and Other Logs Run Induction, Density/Neutron				22. Was Well Cored No			
23. CASING RECORD (Report all strings set in well)							
CASING SIZE		WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED	
13 3/8"		48#	397'	17 1/2"	440 sx Cl 'C' to surface	-0-	
8 5/8"		32#	3400'	11"	800 sx Cl 'C' to surface	-0-	
5 1/2"		15.5#	7472'	7 7/8"	955 sx Cl 'C'	-0-	
24. LINER RECORD						25. TUBING RECORD	
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
None					2 7/8"	6305'	6305'
26. Perforation record (interval, size, and number) 1 SPF/23 Holes: 6350, 6364, 6370, 6387, 6401, 6408, 6410, 6411, 6416, 6428, 6430, 6438, 6442, 6446, 6448, 6453, 6461, 6466, 6467, 6485, 6486, 6493, 6444				27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.			
				DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED		
				6350'-6493'	3,000 gals 15% HCl acid		
				6350'-6493'	46,000 gals gel & 112,700# 20/40sd		
28. PRODUCTION							
Date First Production 7/23/99		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing				Well Status (Prod. or Shut-in) Producing	
Date of Test 7/25/99	Hours Tested 24	Choke Size 20/64"	Prod'n For Test Period	Oil - Bbl. 126	Gas - MCF 435	Water - Bbl. 25	Gas - Oil Ratio 3452
Flow Tubing Press. 100#	Casing Pressure 0	Calculated 24-Hour Rate	Oil - Bbl. 126	Gas - MCF 435	Water - Bbl. 25	Oil Gravity - API - (Corr.) 38.8	
29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold - GPM						Test Witnessed By B. Dean	
30. List Attachments Electric Logs, Deviation Survey							
31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief							
Signature <u>Larry Tarwater</u>			Printed Name <u>Larry Tarwater</u>		Title <u>Production Engineer</u> Date <u>7/26/99</u>		

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

T. Anhy _____
 T. Salt _____
 B. Salt _____
 T. Yates _____
 T. 7 Rivers _____
 T. Queen _____
 T. Grayburg _____
 T. San Andres 3990
 T. Glorieta 5040
 T. Paddock 5210
 T. Blinberry 5420
 T. Tubb 6015
 T. Drinkard 6345
 T. Abo 6900
 T. Wolfcamp _____
 T. Penn _____
 T. Cisco (Bough C) _____

Northwestern New Mexico

T. Ojo Alamo _____
 T. Kirtland-Fruitland _____
 T. Pictured Cliffs _____
 T. Cliff House _____
 T. Menefee _____
 T. Point Lookout _____
 T. Mancos _____
 T. Gallup _____
 Base Greenhorn _____
 T. Dakota _____
 T. Morrison _____
 T. Todilto _____
 T. Entrada _____
 T. Wingate _____
 T. Chinle _____
 T. Permian _____
 T. Penn "A" _____

OIL OR GAS SANDS OR ZONES

No. 1, from 6410 to 6588
 No. 2, from 6015 to 6070
 No. 3, from 5420 to 5580
 No. 4, from 5210 to 5290
 No. 5, From 5040 to 5170
 No. 6, From 3990 to 4160

IMPORTANT WATER SANDS

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

No. 1, from _____ to _____ feet
 No. 2, from _____ to _____ feet
 No. 3, from _____ to _____ feet

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology	From	To	Thickness in Feet	Lithology
Surface	700	700	Sand & Conglomerate				
700	2500	1800	Anhydrites & Shales				
2500	3600	1100	Dolomites & Anhydrites				
3600	3990	390	Sandy Dolomite				
3990	6900	1910	Dolomites & Shale				
6900	7233	333	Limestone & Dolomite				

CERTIFIED SURVEYS

**HOME STAKE OIL &
GAS COMPANY**

SARAH JOHNSTON #2

**LEA COUNTY, NEW MEXICO
SEC. 22-T22S-R37E**

JUNE 10, 1999

sperry-sun
DRILLING SERVICES

A HALLIBURTON COMPANY



sperry-sun

DRILLING SERVICES

A HALLIBURTON COMPANY

9800 West Reno / Oklahoma City, OK 73127 / 405-324-2222 / 405-324-1009 (Fax)


June 10, 1999

Re: Home Stake Oil & Gas Company
Sarah Johnston #2
Sec. 22-T22S-R37E
Lea County, New Mexico

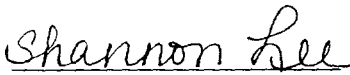
Enclosed please find the original surveys performed on the referenced well by Halliburton/Sperry Sun.

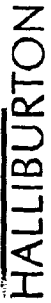
<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
John Strahan Directional Driller	Sidetrack	5305' - 7375'	05/25/99 - 06/06/99	Directional/MWD

If any other information is required, please contact the undersigned at the letterhead address and phone number.


Dave Egedahl
Operations Engineer

My Commission Expires: 11-30-99


Shannon Lee
Notary Public



Page 1
6/10/99 3:15:04 pm
Version VER2.2.6

Page 1
6/10/99 3:15:04 pm
Version VER2.2.6

AFE No.: SEC. 22-T22S-R37E
 Location: LEA COUNTY, NEW MEXICO
 MWD Operator(s): MATT, DON/JASON
 Dir'l Driller(s): JOHN STRAHAN
 Company Man: KEN MOZINGO

Company Man: KEN MOZINGO

FOOTAGE DRILLED	DRILLING HOURS	AVERAGE ROP	AVERAGE DAYS	AVERAGE FTG/DAY	AVERAGE HRS/DAY
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2070.00	136.50	15.16	11.58	178.80	11.79
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[illegible]

1	1	5305.00	0.48	5804.00	11.10	499.00	59.50	8.39	2.13	0	1838	65M-047
1	2	5804.00	11.10	7375.00	12.10	1571.00	77.00	20.40	0.06	0	1825	HT64136

Run No.	BHA No.	BIT SIZE(in)	BIT MODEL	BIT NOZZLES (/32nd)	MOTOR Description	STAB O.D.	DISTANCE CTR TO BIT	REASON FOR TRIP
1	1	1 1/2	1	1	1	1	1	1
2	2	1 1/2	2	2	2	2	2	2
3	3	1 1/2	3	3	3	3	3	3
4	4	1 1/2	4	4	4	4	4	4
5	5	1 1/2	5	5	5	5	5	5
6	6	1 1/2	6	6	6	6	6	6
7	7	1 1/2	7	7	7	7	7	7
8	8	1 1/2	8	8	8	8	8	8
9	9	1 1/2	9	9	9	9	9	9
10	10	1 1/2	10	10	10	10	10	10
11	11	1 1/2	11	11	11	11	11	11
12	12	1 1/2	12	12	12	12	12	12
13	13	1 1/2	13	13	13	13	13	13
14	14	1 1/2	14	14	14	14	14	14
15	15	1 1/2	15	15	15	15	15	15
16	16	1 1/2	16	16	16	16	16	16
17	17	1 1/2	17	17	17	17	17	17
18	18	1 1/2	18	18	18	18	18	18
19	19	1 1/2	19	19	19	19	19	19
20	20	1 1/2	20	20	20	20	20	20
21	21	1 1/2	21	21	21	21	21	21
22	22	1 1/2	22	22	22	22	22	22
23	23	1 1/2	23	23	23	23	23	23
24	24	1 1/2	24	24	24	24	24	24
25	25	1 1/2	25	25	25	25	25	25
26	26	1 1/2	26	26	26	26	26	26
27	27	1 1/2	27	27	27	27	27	27
28	28	1 1/2	28	28	28	28	28	28
29	29	1 1/2	29	29	29	29	29	29
30	30	1 1/2	30	30	30	30	30	30
31	31	1 1/2	31	31	31	31	31	31
32	32	1 1/2	32	32	32	32	32	32
33	33	1 1/2	33	33	33	33	33	33
34	34	1 1/2	34	34	34	34	34	34
35	35	1 1/2	35	35	35	35	35	35
36	36	1 1/2	36	36	36	36	36	36
37	37	1 1/2	37	37	37	37	37	37
38	38	1 1/2	38	38	38	38	38	38
39	39	1 1/2	39	39	39	39	39	39
40	40	1 1/2	40	40	40	40	40	40
41	41	1 1/2	41	41	41	41	41	41
42	42	1 1/2	42	42	42	42	42	42
43	43	1 1/2	43	43	43	43	43	43
44	44	1 1/2	44	44	44	44	44	44
45	45	1 1/2	45	45	45	45	45	45
46	46	1 1/2	46	46	46	46	46	46
47	47	1 1/2	47	47	47	47	47	47
48	48	1 1/2	48	48	48	48	48	48
49	49	1 1/2	49	49	49	49	49	49
50	50	1 1/2	50					

1	1	7-7/8"	F47-HPS	12 12 12	6-1/2" SLO-SPEED 5/6 X 1.50° bend	MP - Motor performance

1	2	7-7/8"	F47-HPS	12 12 12	6-1/2" SLO-SPEED 5/6 X 1.50° bend	-----	<undefined>
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[illegible]

1	1	386.00	113.00	52.75	6.75	7.32	16.74	60.00	KICK OFF & BUILD 3 DEG/100 TO 15.3 @ S47W
1	2	238.00	1333.00	14.00	63.00	17.00	21.16	101.67	FINISH BUILDING ANGLE & HOLD TO TD

HALLIBURTON DRILLING SYSTEMS

Page 1

Survey Report

Date: 6/10/99
Time: 3:42 pm
Wellpath ID: HOMESTK
Date Created: 5/28/99
Last Revision: 6/10/99

Calculated using the Minimum Curvature Method
Computed using PDS VER2.2.6
Vertical Section Plane: 224.29 deg.

Survey Reference: WELLHEAD
Vertical Section Reference: WELLHEAD
Closure Reference: WELLHEAD
TVD Reference: WELLHEAD

HOME STAKE OIL & GAS COMPANY
LEA COUNTY, NEW MEXICO
McMORMACK; SILURIAN, SOUTH
SARAH JOHNSTON #2
SEC. 22 - T22S - R37E

SURVEY

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft) (ft)		DLS (dg/100ft)
TIE-IN TO GYRO SURVEY @ 5200' MD								
5200.00	0.95	50.57	0.00	5198.60	-93.57	51.30 N	81.41 E	0.00
5282.00	0.70	37.20	82.00	5280.59	-94.74	52.13 N	82.24 E	0.38
BHA #1 @ 5305' 6 1/2" SS 5/6 x 1.5° BEND - F47-HPS								
5313.00	0.40	30.20	31.00	5311.59	-95.03	52.38 N	82.41 E	0.99
5344.00	0.10	320.50	31.00	5342.59	-95.14	52.49 N	82.44 E	1.22
5376.00	0.70	240.90	32.00	5374.59	-94.96	52.42 N	82.26 E	2.15
5407.00	1.30	219.50	31.00	5405.58	-94.43	52.05 N	81.87 E	2.25
5438.00	2.20	224.50	31.00	5436.57	-93.48	51.36 N	81.23 E	2.94
5470.00	3.20	225.60	32.00	5468.53	-91.97	50.29 N	80.16 E	3.13
5501.00	4.20	223.60	31.00	5499.47	-89.97	48.87 N	78.76 E	3.25
5533.00	5.30	224.90	32.00	5531.36	-87.32	46.97 N	76.90 E	3.45
5595.00	7.40	224.90	62.00	5592.97	-80.47	42.11 N	72.06 E	3.39
5658.00	9.00	230.60	63.00	5655.33	-71.51	36.11 N	65.39 E	2.85
5720.00	9.90	230.40	62.00	5716.49	-61.39	29.64 N	57.54 E	1.45
5783.00	10.40	232.20	63.00	5778.50	-50.37	22.70 N	48.87 E	0.94
BHA #2 @ 5804' 6 1/2" SS 5/6 X 1.5° BEND - F47-HPS								
5846.00	12.50	228.80	63.00	5840.25	-37.94	14.72 N	39.25 E	3.50
5940.00	14.60	224.10	94.00	5931.63	-15.95	0.49 S	23.35 E	2.52
6032.00	14.80	224.20	92.00	6020.61	7.39	17.24 S	7.09 E	0.22
6126.00	14.00	225.80	94.00	6111.66	30.77	33.77 S	9.44W	0.95
6220.00	13.40	224.30	94.00	6202.99	53.02	49.50 S	25.20W	0.74

HALLIBURTON DRILLING SYSTEMS

Page 2

Date: 6/10/99

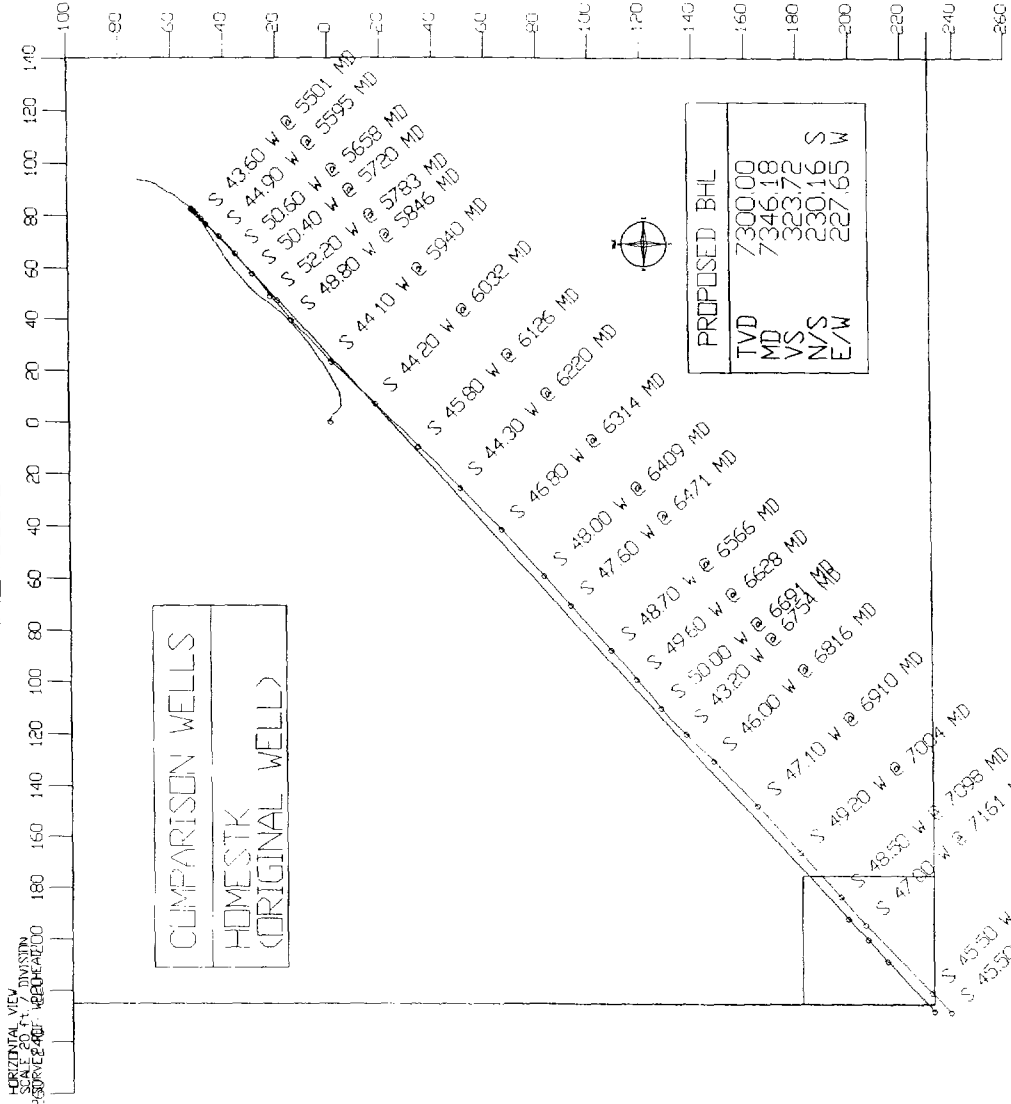
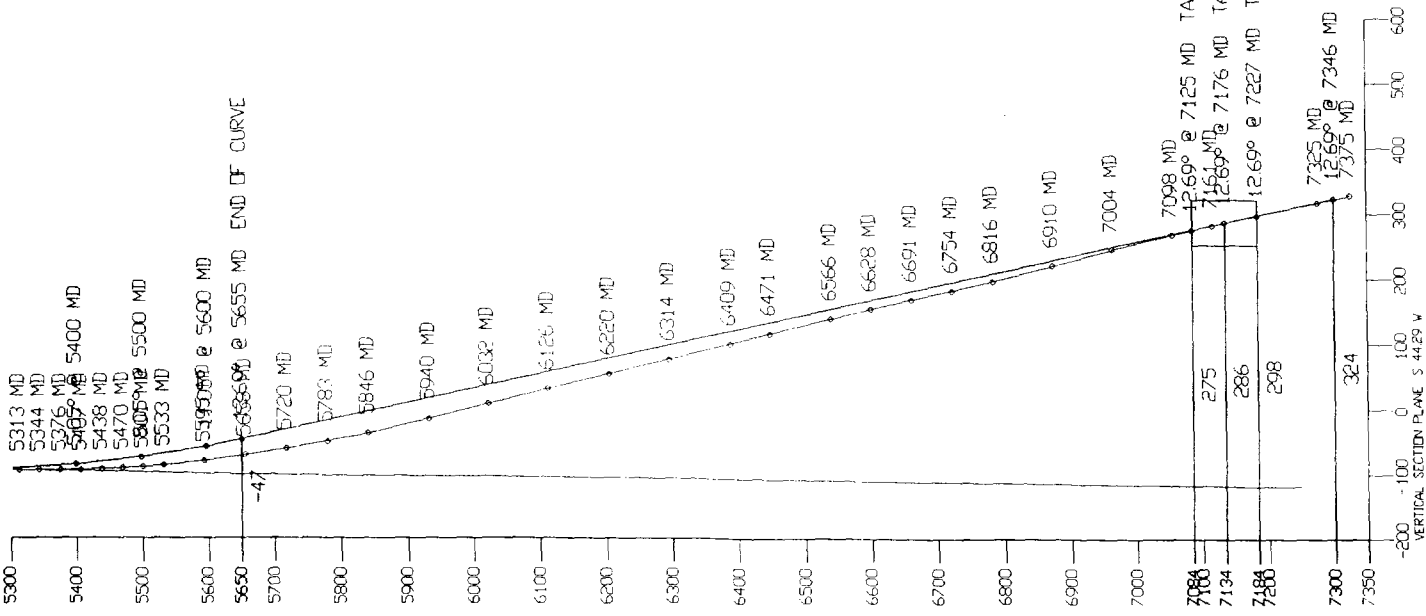
Survey Report

Wellpath ID: HOMESTK

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft)		DLS (dg/100ft)
6314.00	14.60	226.80	94.00	6294.19	75.75	65.40 S	41.44W	1.43
6409.00	14.30	228.00	95.00	6386.19	99.42	81.45 S	58.89W	0.45
6471.00	14.40	227.60	62.00	6446.25	114.76	91.77 S	70.27W	0.23
6566.00	13.90	228.70	95.00	6538.37	137.93	107.27 S	87.57W	0.60
6628.00	13.50	229.60	62.00	6598.61	152.56	116.87 S	98.67W	0.73
6691.00	12.90	230.00	63.00	6659.94	166.88	126.16 S	109.66W	0.96
6754.00	12.80	223.20	63.00	6721.37	180.86	135.77 S	119.82W	2.40
6816.00	14.80	226.00	62.00	6781.58	195.64	146.28 S	130.22W	3.40
6910.00	15.10	227.10	94.00	6872.39	219.87	162.95 S	147.83W	0.44
7004.00	14.80	229.20	94.00	6963.21	244.06	179.13 S	165.89W	0.66
7098.00	13.80	228.50	94.00	7054.30	267.21	194.41 S	183.37W	1.08
7161.00	13.40	227.00	63.00	7115.53	281.99	204.36 S	194.34W	0.85
7325.00	12.10	225.50	164.00	7275.49	318.16	229.37 S	220.50W	0.82
PROJECTION TO TD @ 7375' MD								
7375.00	12.10	225.50	50.00	7324.38	328.64	236.72 S	227.97W	0.00

HOME STAKE OIL & GAS Co.
 LEA COUNTY, NEW MEXICO
 McMORMACK SILURIAN, SOUTH
 SARAH JOHNSTON #2
 SEC. 22 - T22S - R37E
 (REVISED 5-25-99) PROPOSAL

VERTICAL VIEW / DIVISION
 SCALE: 1" = 100' VERT
 VERTICAL SECTION REF. WELLHEAD



6/11/99 10:28 am