



THE WESTERN COMPANY CEMENT JOB DETAIL SHEET

CUSTOMER <i>Sam Billington</i>			DATE <i>11-7-94</i>		F.R.# <i>309240</i>		SER. SUP. <i>Steve Hendrix</i>		TYPE JOB <i>18B</i>				
LEASE & WELL NAME-OCSG <i>NW 1/4 CHA #46</i>			LOCATION <i>Sec 26-29N-14W</i>				COUNTY-PARISH-BLOCK <i>SAN JUAN</i>						
DISTRICT <i>Farmington</i>			DRILLING CONTRACTOR RIG # <i>TRIPLE P #2</i>				OPERATOR <i>Sirso Bros</i>						
MATERIAL FURNISHED BY WPS	TYPE OF PLUGS		LIST-CSG-HARDWARE			SQ MANI FOLD (Y) N	TOP OF EACH FLUID	PHYSICAL SLURRY PROPERTIES					
	TOP BTM	—	—					SLURRY WGT PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
								<i>15.6</i>	<i>1.18</i>	<i>5.2</i>	<i>2</i>	<i>12</i>	<i>7</i>
								<i>15.6</i>	<i>1.18</i>	<i>5.2</i>	<i>2</i>	<i>30</i>	<i>18</i>
Available Mix Water <i>200</i> Bbl.			Available Displ. Fluid <i>200</i> Bbl.						TOTAL		<i>42</i>	<i>25</i>	
HOLE			TBG-CSG-D.P.			TBG-CSG-D.P.			COLLAR DEPTHS				
SIZE	% EXCESS	DEPTH	SIZE	WGT.	TYPE	DEPTH	SIZE	WGT.	TYPE	DEPTH	SHOE	FLOAT	STAGE
<i>6 1/4</i>		<i>5447</i>	<i>4 1/2</i>	<i>9.5</i>		<i>5447</i>							
LAST CASING			PKR CMT RET-BR PL-LINER			DEPTH			TOP CONN		WELL FLUID		
SIZE	WGT	TYPE	DEPTH	BRAND & TYPE		DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.	
						<i>3144</i>	<i>3036</i>	<i>3806</i>	<i>2 7/8</i>	<i>FUE</i>	<i>H2O</i>	<i>8.3</i>	
CAL. DISPL. VOL.-Bbl.			CAL. PSI		CAL. MAX PSI	OP. MAX	MAX TBG PSI		MAX CSG PSI		DISPL. FLUID		WATER
TBG.	CSG.	CSG.	TOTAL	BUMP PLUG	TO REV	SO. PSI	RATED	OP.	RATED	OP.	TYPE	WGT.	SOURCE
<i>12.2</i>	<i>8.8</i>		<i>21</i>			<i>1000</i>			<i>5350</i>	<i>4280</i>	<i>H2O</i>	<i>8.3</i>	<i>R19</i>
EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:													
PRESSURE/RATE DETAIL										EXPLANATION			
TIME	PRESSURE-PSI		RATE	Bbl. FLUID	FLUID	SAFETY MEETING: WPS CREW ☒ CO. REP ☒ TEST LINES _____ PSI CIRCULATING WELL-RIG ☒ WPS ☐							
HR: MIN.	PIPE	ANNULUS	BPM	PUMPED	TYPE								
<i>09:31</i>	<i>—</i>		<i>—</i>	<i>—</i>	<i>—</i>	<i>St. Inj Rate</i>							
<i>09:39</i>	<i>900</i>		<i>.4</i>	<i>10</i>	<i>H2O</i>	<i>St. 12 bbl cmt</i>							
<i>09:45</i>	<i>800</i>		<i>2</i>	<i>12</i>	<i>Cmt</i>	<i>St. 21 bbl Disp.</i>							
<i>09:57</i>	<i>300</i>		<i>2.3</i>	<i>21</i>	<i>H2O</i>	<i>Shut Down</i>							
<i>10:12</i>	<i>400</i>		<i>—</i>	<i>—</i>	<i>—</i>	<i>Bleed off</i>							
<i>10:48</i>	<i>—</i>		<i>—</i>	<i>—</i>	<i>—</i>	<i>St. Rev. Out</i>							
<i>11:54</i>	<i>400</i>		<i>2.5</i>	<i>45</i>	<i>H2O</i>	<i>Shut Down</i>							
<i>11:11</i>	<i>—</i>		<i>—</i>	<i>—</i>	<i>—</i>	<i>P/T Backside</i>							
<i>11:11</i>	<i>600</i>		<i>.1</i>	<i>.1</i>	<i>H2O</i>	<i>Shut Down</i>							
<i>11:13</i>	<i>—</i>		<i>—</i>	<i>—</i>	<i>—</i>	<i>St. Inj. Rate 2nd squeeze</i>							
<i>11:15</i>	<i>800</i>		<i>2</i>	<i>5</i>	<i>H2O</i>	<i>St. 30 bbl cmt</i>							
<i>11:29</i>	<i>900</i>		<i>2</i>	<i>30</i>	<i>Cmt</i>	<i>Shut Down Wash pmfsc lines</i>							
<i>11:30</i>	<i>—</i>		<i>—</i>	<i>—</i>	<i>—</i>	<i>St. 10.75 bbl Disp</i>							
<i>11:38</i>	<i>150</i>		<i>1.8</i>	<i>10.75</i>	<i>H2O</i>	<i>Shut Down</i>							
<i>11:39</i>	<i>500</i>		<i>—</i>	<i>—</i>	<i>—</i>	<i>St. Squeeze</i>							
<i>11:42</i>	<i>600</i>		<i>.3</i>	<i>1.25</i>	<i>H2O</i>	<i>Shut Down</i>							
<i>11:52</i>	<i>350</i>		<i>—</i>	<i>—</i>	<i>—</i>	<i>St. Squeeze</i>							
<i>11:56</i>	<i>650</i>		<i>.3</i>	<i>1.4</i>	<i>H2O</i>	<i>Shut Down</i>							
<i>12:29</i>	<i>150</i>		<i>—</i>	<i>—</i>	<i>—</i>	<i>St. Squeeze</i>							
<i>12:32</i>	<i>800</i>		<i>.4</i>	<i>.9</i>	<i>H2O</i>	<i>Shut Down</i>							
<i>12:21</i>	<i>—</i>		<i>—</i>	<i>—</i>	<i>—</i>	<i>St P/T Casings</i>							
<i>12:25</i>	<i>800</i>		<i>.4</i>	<i>3</i>	<i>H2O</i>	<i>Shut Down shut in</i>							
BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	TOTAL Bbl. PUMPED	Bbl. CMT RETURNS/ REVERSED	PSI LEFT ON CSG	SPOT TOP CEMENT	SER. SUP. <i>Steve Hendrix</i>						
<i>Y-N</i>	<i>—</i>	<i>Y-N</i>	<i>140</i>	<i>—</i>	<i>800</i>	<i>—</i>	CUSTOMER REP. <i>Sam Billington</i>						

 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460		INJECTION WELL MONITORING REPORT		Form Approved OMB No. 2040-0042 Approval expires 9-30-91
YEAR	1992	MONTH	MONTH	MONTH
		April	May	June
1. Injection Pressure (PSI)				
1. Minimum		0	0	0
2. Average		0	0	0
3. Maximum		0	0	0
Injection Rate (Gal/Min) BBLs/Month		0	0	0
1. Minimum		0	0	0
2. Average		0	0	0
3. Maximum		0	0	0
Annular Pressure (PSI)				
1. Minimum		0	0	0
2. Average		0	0	0
3. Maximum		0	0	0
Injection Volume (Gall)				
1. Monthly Total		0	0	0
2. Cumulative		0	0	0
Temperature (F°)				
1. Minimum		Ambient	Ambient	Ambient
2. Average		"	"	"
3. Maximum		"	"	"
pH				
1. Minimum		N/A	N/A	N/A
2. Average		"	"	"
3. Maximum		"	"	"
Other				
Name and Address of Permittee		Permit Number		
Sirgo Operating, Inc. P.O. Box 3531 Midland, Tx 79702		R-2154		
Name and Official Title (Please type or print)		Signature		Date Signed
Victor J. Sirgo		<i>Victor J. Sirgo</i>		10-8-92


 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 WASHINGTON, DC 20460

INJECTION WELL MONITORING REPORT

 Form Approved
 OMB No. 2040-0042
 Approval expires 9-30-91

YEAR 1992	MONTH	-MONTH	MONTH
	January	February	March
Injection Pressure (PSI)			
1. Minimum	0	0	0
2. Average	0	0	0
3. Maximum	0	0	0
Injection Rate (Gal/Min) BBLS/Month	0	0	0
1. Minimum	0	0	0
2. Average	0	0	0
3. Maximum	0	0	0
Annular Pressure (PSI)			
1. Minimum	0	0	0
2. Average	0	0	0
3. Maximum	0	0	0
Injection Volume (Gal)			
1. Monthly Total	0	0	0
early Cumulative	0	0	0
Temperature (F°)			
1. Minimum	Ambient	Ambient	Ambient
2. Average	"	"	"
3. Maximum	"	"	"
pH			
1. Minimum	N/A	N/A	N/A
2. Average	"	"	"
3. Maximum	"	"	"
Other			

Name and Address of Permittee

Sirgo Operating, Inc. P.O. Box 3531 Midland, Tx 79702

Permit Number

R-2154

Name and Official Title (Please type or print)

Signature

Date Signed

10 8 07

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460Form Approved
OMB No. 2040-0042
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INJECTION WELL MONITORING REPORT

YEAR 1991

	MONTH	MONTH	MONTH
	October	November	December
Injection Pressure (PSI)			
1. Minimum	0	0	0
2. Average	0	0	0
3. Maximum	0	0	0
Injection Rate (Gal/Min) BBLS/Month	0	0	0
1. Minimum	0	0	0
2. Average	0	0	0
3. Maximum	0	0	0
Annular Pressure (PSI)			
1. Minimum	0	0	0
2. Average	0	0	0
3. Maximum	0	0	0
Injection Volume (Gall)			
1. Monthly Total	0	0	0
2. Yearly Cumulative	142422	142422	142422
Temperature (F°)			
1. Minimum	Ambient	Ambient	Ambient
2. Average	"	"	"
3. Maximum	"	"	"
pH			
1. Minimum	N/A	N/A	N/A
2. Average	"	"	"
3. Maximum	"	"	"
Other			

Name and Address of Permittee

Sirgo Operating, Inc. P.O. Box 3531 Midland, Tx 79702

Permit Number

R-2154

Name and Official Title (Please type or print)

Signature

Date Signed 11/8/91

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INJECTION WELL MONITORING REPORT

YEAR 1991

	MONTH	-MONTH	MONTH
	July	August	September
Injection Pressure (PSI)			
1. Minimum	0	0	0
2. Average	0	0	0
3. Maximum	0	0	0
Injection Rate (Gal/Min) BBLS/Month	0	0	0
1. Minimum	0	0	0
2. Average	0	0	0
3. Maximum	0	0	0
Annular Pressure (PSI)			
1. Minimum	0	0	0
2. Average	0	0	0
3. Maximum	0	0	0
Injection Volume (Gal)			
1. Monthly Total	0	0	0
Early Cumulative	142422	142422	142422
Temperature (F°)			
1. Minimum	Ambient	Ambient	Ambient
2. Average	"	"	"
3. Maximum	"	"	"
pH			
1. Minimum	N/A	N/A	N/A
2. Average	"	"	"
3. Maximum	"	"	"
Other			

Name and Address of Permittee

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Victor J. Sirgo

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WASHINGTON, DC 20460

INJECTION WELL MONITORING REPORT

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YEAR 1991	MONTH April	MONTH May	MONTH June
Injection Pressure (PSI)			
1. Minimum	0	0	0
2. Average	0	0	0
3. Maximum	0	0	0
Injection Rate (Gal/Min) BBLS/Month	514	599	574
1. Minimum	.50	.56	.56
2. Average	.50	.56	.56
3. Maximum	.50	.56	.56
Annular Pressure (PSI)			
1. Minimum	300	300	300
2. Average	300	300	300
3. Maximum	300	300	300
Injection Volume (Gal)			
1. Monthly Total	21588	25158	24108
Yearly Cumulative	93156	118314	142422
Temperature (F°)			
1. Minimum	Ambient	Ambient	Ambient
2. Average	"	"	"
3. Maximum	"	"	"
pH			
1. Minimum	N/A	N/A	N/A
2. Average	"	"	"
3. Maximum	"	"	"
Other			

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INJECTION WELL MONITORING REPORT

YEAR 1991

	MONTH January	-MONTH February	MONTH March
on Pressure (PSI)			
1. Minimum	0	0	0
2. Average	0	0	0
3. Maximum	0	0	0
Injection Rate (Gal/Min) BBLS/Month	595	523	586
1. Minimum	.56	.54	.55
2. Average	.56	.54	.55
3. Maximum	.56	.54	.55
Annular Pressure (PSI)			
1. Minimum	300	300	300
2. Average	300	300	300
3. Maximum	300	300	300
Injection Volume (Gal)			
1. Monthly Total	24990	21966	24612
2. Early Cumulative	24990	46956	71568
Temperature (F°)			
1. Minimum	Ambient	Ambient	Ambient
2. Average	"	"	"
3. Maximum	"	"	"
pH			
1. Minimum	N/A	N/A	N/A
2. Average	"	"	"
3. Maximum	"	"	"
Other			

Name and Address of Permittee

Sirgo Operating, Inc. P.O. Box 3531 Midland, Tx 79702

Permit Number

R-2154

Name and Official Title (Please type or print)

Victor J. Sirgo

Signature

Date Signed

m-8-92

EPA		UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460		Form Approved OMB No. 2040-0042 Approval expires 9-30-92
INJECTION WELL MONITORING REPORT				
YEAR	1990	MONTH	MONTH	MONTH
		October	November	December
Injection Pressure (PSI)				
1. Minimum		0	0	0
2. Average		0	0	0
3. Maximum		0	0	0
Injection Rate (Gal/Min) BBLs/Month		722	478	510
1. Minimum		.68	.46	.48
2. Average		.68	.46	.48
3. Maximum		.68	.46	.48
Annular Pressure (PSI)				
1. Minimum		390	300	300
2. Average		390	300	300
3. Maximum		390	300	300
Injection Volume (Gal)				
1. Monthly Total		30324	20076	21420
2. Cumulative		30324	50400	71820
Temperature (F°)				
1. Minimum		Ambient	Ambient	Ambient
2. Average		"	"	"
3. Maximum		"	"	"
pH				
1. Minimum		N/A	N/A	N/A
2. Average		"	"	"
3. Maximum		"	"	"
Other				
Name and Address of Permittee		Permit Number		
Sirgo Operating, Inc. P.O. Box 3531 Midland, Tx 79702		R-2154		
Name and Official Title (Please type or print)		Signature		Date Signed
Victor J. Sirgo		<i>Victor J. Sirgo</i>		10-8-90

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPL
(Other instructions
reverse side)

Budget Bureau No. 1004-011
Expires August 31, 1985
5. LEASE DESIGNATION AND SERIAL NO.
14-20-603- 2172
6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED

BLM

91 FEB 11 PM 2:01

019 FARMINGTON, NM

Navajo

UNIT AGREEMENT NAME

NW Cha Cha Unit

7. NAME OR LEASE NAME

9. WELL NO.

46

10. FIELD AND POOL, OR WILDCAT

Cha Cha Gallup

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

Sec. 26 T29N R14W

12. COUNTY OR PARISH 13. STATE

San Juan

NM

1. OIL WELL ☐ GAS WELL ☐ OTHER W/W

2. NAME OF OPERATOR

Sirgo Operating, Inc.

3. ADDRESS OF OPERATOR

P.O. Box 3531, Midland, Texas 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface

Unit E, 1980 FNL 660 FWL

14. PERMIT NO.

30-045- D787700

15. ELEVATIONS (Show whether OF, RT, CR, etc.)

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETION

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Change in well #

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

XX

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

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

Change well number from 26#8 to 46.

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

SIGNED

Bonnie Atwater

TITLE Production Technician

ACCEPTED FOR RECORD

DATE

2-8-91

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

FARMINGTON RESOURCE AREA

BY

SM

*See Instructions on Reverse Side

OPERATOR

Price Paid
Midland

12-26

COUNTY San Juan

COUNTY San Juan

JOB ORDER NO. **WA-2132**

LOCATION OF WELL 1980' FNL & 660' FNL, Section 26, T-29-N,

B-14-W, San Juan County, New Mexico

OPERATOR	Humble Oil & Refining Company	ADDRESS	Box 2180, Houston, Texas
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Drilling Days: 18.5 Type Well: Oil, Proven.

Completion Days: 4.5

ELEV. OF DERRICK FLOOR 5813; ELEV. OF TOP FLG. OF OIL STRING CASINGHEAD 5804

DISTANCE BETWEEN TOP OF RTY. DR. BUSHING AND TOP OF TOP FLG. OF OIL STRING CASINGHEAD

DISTANCE BETWEEN TOP OF RTY. DR. BUSHING AND TOP OF DERRICK FLOOR.

COMPLETION FLUID Water ; TOTAL DEPTH 5488 ; COMPLETION DEPTH 5467

COMPLETION FLUID: _____ TOTAL DEPTH: _____ COMPLETION DEPTH: 5390 5400
 UPPER FORMATION: Callup sand & shale RESERVOIR: sand & shale PRODUCING FROM: _____ TO: _____

UPPER FORMATION _____ RESERVOIR _____ PRODUCING FROM _____ TO _____
 LOWER FORMATION _____ RESERVOIR _____ PRODUCING FROM _____

LOWER FORMATION _____; RESERVOIR _____; PRODUCING FROM _____
COMPLETION DATE 9/13/60; HOLE SIZE BEHIND OIL STRING CSG. 6 3/4; SIZE OF OPEN HOLE BELOW CSG. _____

INTL OR POT	DATE	SIZE CHOKE OR PLUNGER	HOURS TESTED	BBLs/DAY		% BS & W	GAS M C F /DAY	GAS OIL RATIO	TBG PR OR S P M	CSG PR OR L. STROKE	CON GRAV
				FLUID	OIL						
IP	9/13/60	5/16	24	241	241	-	417.2	1731	200	-	41

DRILL STEM TESTS

[illegible]

CASING, SCREEN AND LINER RECORD

[illegible]

TUBING AND PACKER RECORD

JOINTS	SIZE	GRADE, WEIGHT, THREAD, TYPE AND MANUFACTURER	CLASS	AMOUNT SET FEET	DEPTH SET AT
		Bull plug	1	.75	
1	2 3/8	Tubing, 4.70#, J-55, 8rd, CFI	1	31.72	
		Perforated Nipple	1	3.00	
2	2 3/8	Tubing, 4.70#, J-55, 8rd, CFI	1	62.51	
	2 3/8	Packer, Baker Tension Type	1	2.10	
169	2 3/8	Tubing, 4.70#, J-55, 8rd, CFI	1	5282.35	
				5382.53	5393.53

TYPE AND WEIGHT OF FLUID IN CASING-TUBING ANNULUS:

WELL HEAD RECORD

MAKE AND TYPE	SIZE	WORKING PRESSURE	REMARKS
Nat'l Type G	7 5/8 x 4 1/2	6000#T	4 1/2 x 2 3/8 Type E Nat'l Xmas Tree

PERFORATION, ACID, SHOOTING, AND FLUID FRACTURING RECORD

DATE	DEPTH		SHOTS	BULLET OR JET	GUN NAME	GUN O D	SERVICE COMPANY	REMARKS*
	FROM	TO	GALLONS QUARTS	KIND OF FLUID EXPLOSIVE	MIN. PRESS. TAMP	MAX. PRESS. FEET		
1/26/60	5390	5400	20	Jet	-	-	PGAC	2 shots/ft
1/26/60	5390	5400	39,741 gals	1st oil	2300	2500	Howco	Avg pump rate 27 BP
			30000#	sand				One stage frac job

CEMENTING RECORD

TYPE** OF JOB	KIND OF CEMENT	NO. SACKS USED	NO. SACKS SQUEEZED	NO. OF BATCHES	FINAL PRESSURE	WEIGHT SLURRY	HOURS SET	DEPTH		REMARKS***
								FROM	TO	
surface	Reg cmt	140	-	1	200	15.6	26	219	0	Cmt cifo.
rod	12% gel	165	-	1	1500		24	5484	4800	Top by temp survey.

* BASIS OF MEASUREMENT USED IN PERFORATING SHOULD BE NOTED.

** SHOW SQUEEZE CEMENT JOBS AS WELL AS PRIMARY CEMENT JOBS.

*** SHOW KIND AND NUMBER OF SCRATCHES AND CENTRALIZERS AND DEPTH ON CASING. ALSO SHOW A RECORD OF TEMPERATURE SURVEYS TO LOCATE TOP OF CEMENT.

MISCELLANEOUS INFORMATION

(RECORD OF ELECTRIC LOGS, RADIOACTIVITY LOGS, CALIPER LOGS CORING, AND CORE ANALYSIS: RESULTS OF DIRECTIONAL DRILLING INCLUDING A RECORD OF HOLE DEVIATION, MATERIAL LOST IN HOLE: A RECORD OF PLUG-BACK OR DEEPENING OPERATIONS AND OF RIGS USED TO DRILL AND COMPLETE.)

Rig Data: Drld by Great Western Drlg Co.; completion unit, Gibbins & James W. Maness.**Maximum Hole Deviation: 1 1/2 deg at 500', Totco.****Material Lost In Hole: None****Coring Record: Core #1, 5365-5379; #2, 5379-5388; #3, 5387-5405; #4 5430-5455, Gallup.****Logging Record: IES, Microlog by Schlumberger. Gamma Ray Depth Control by PGAC.****Scratchers & Centralizers:****7 5/8 csg, 1 centralizer at 215. No scratchers.****4 1/2 csg, 3 centralizers 5467, 5402 & 5337. 50 scratchers interval 5375-5425, Baker.**

PREPARED BY

CHECKED BY

APPROVED

DIST. PET. ENGR.

DISTRICT SUPERINTENDENT

Mary Lou Hobbs

A. L. Carpenter

R. R. Alworth

x			

kuu

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LEASE NO. 210973

UNIT _____

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL _____	SUBSEQUENT REPORT OF WATER SHUT-OFF _____
NOTICE OF INTENTION TO CHANGE PLANS _____	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING _____
NOTICE OF INTENTION TO TEST WATER SHUT-OFF _____	SUBSEQUENT REPORT OF ALTERING CASING _____
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL _____	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR _____
NOTICE OF INTENTION TO SHOOT OR ACIDIZE _____	SUBSEQUENT REPORT OF ABANDONMENT _____
NOTICE OF INTENTION TO PULL OR ALTER CASING _____	SUPPLEMENTARY WELL HISTORY _____
NOTICE OF INTENTION TO ABANDON WELL _____	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Navajo Tribe of Indians "L"

December 22, 1960

WELL NO. 1 IS LOCATED 1980 FT. FROM {N} LINE AND 660 FT. FROM {W} LINE OF SEC. 26

SW/4 of NW/4 26 29-N 14-W NMPM

(1/4 SEC. AND SEC. NO.) (TWP.) (RANGE) (MERIDIAN)

Cha Cha Gallup San Juan New Mexico

(FIELD) (COUNTY OR SUBDIVISION) (STATE OR TERRITORY)

THE ELEVATION OF THE DERRICK FLOOR ABOVE SEA LEVEL IS 5813 FT.

DETAILS OF WORK

(STATE NAMES OF AND EXPECTED DEPTHS TO OBJECTIVE SANDS; SHOW SIZES, WEIGHTS, AND LENGTHS OF PROPOSED CASINGS; INDICATE MUDDING JOBS, CEMENTING JOBS, AND ALL OTHER IMPORTANT PROPOSED WORK.)

Perforate 4 1/2" csg from 5390-5400' w/2 shots per ft. Frac perf from 5390-5400' w/ 27,600 gal lss oil and 30,000# sand, avg inj rate 27 EPM. Clean out to 5447'. Ran 2" tbg set at 5394'. Swabbed well off. All load oil recovered 9-10-60. On potential test 9-15-60 well flowed 241 bbls PLO on 20/64 choke.

I UNDERSTAND THAT THIS PLAN OF WORK MUST RECEIVE APPROVAL IN WRITING BY THE GEOLOGICAL SURVEY BEFORE OPERATIONS MAY BE COMMENCED.

COMPANY Humble Oil & Refining Company

ADDRESS Box 2347

Hobbs, New Mexico

By ORIGINAL SIGNED: ARVIN D. EADY

TITLE Agent

X			

(SUBMIT IN TRIPLICATE)

Indian Act

27 240973 24-20-60 2172

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LEASE NO. 240973

UNIT _____

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	X
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

NAVAJO TRIBE OF INDIANS "L"

HOBBS, NEW MEXICO

SEPTEMBER 10 19 60

WELL NO. 1 IS LOCATED 1980 FT. FROM {N} LINE AND 660 FT. FROM {W} LINE OF SEC. 26

SW/4 OF NW/4 26

29N

14W

(1/4 SEC. AND SEC. NO.)

(TWP.)

(RANGE)

(MERIDIAN)

OJO GALLUP

SAN JUAN

NEW MEXICO

(FIELD)

(COUNTY OR SUBDIVISION)

(STATE OR TERRITORY)

THE ELEVATION OF THE DERRICK FLOOR ABOVE SEA LEVEL IS 5813 FT.

DETAILS OF WORK

(STATE NAMES OF AND EXPECTED DEPTHS TO OBJECTIVE SANDS; SHOW SIZES, WEIGHTS, AND LENGTHS OF PROPOSED CASINGS; INDICATE MUDDING JOBS, CEMENTING POINTS, AND ALL OTHER IMPORTANT PROPOSED WORK.)

Ran 5474' (170 Jts) 4-1/2" 9.5# J-55 casing, set at 5484'.
Cement with 165 sacks 12% gel, with 4/10 of 1% HR7, POB
8:20 A.M. 8-24-60. Top of cmt 4800' per temp survey. Tested
csg with 1500# for 30 min-no drop in pressure.

I UNDERSTAND THAT THIS PLAN OF WORK MUST RECEIVE APPROVAL IN WRITING BY THE GEOLOGICAL SURVEY BEFORE OPERATIONS MAY BE COMMENCED.

COMPANY: Humble Oil & Refining Company

ADDRESS: Box 2347

Hoobs, New Mexico

BY ORIGINAL
SIGNED: ARVIN D. EADY

TITLE Agent

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-1000
Approval expires 12-31-60
Indian Agency 14-20-603-2172

X				

Allettes
240973
Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	X
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	X
NOTICE OF INTENTION TO ABANDON WELL		Begin Drilling Operations	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

NAVAJO TRIBE OF INDIANS "L"

HOBBS, NEW MEXICO, AUGUST 22, 1960

Well No. 1 is located 1980 ft. from ^N line and 660 ft. from ^{NE} line of sec. 26
SW/4 OF NW/4 26
(1/4 Sec. and Sec. No.)
OJO GALLUP
(Field)
29N
(Twp.)
14W
(Range)
SAN JUAN
(County or Subdivision)
NEW MEXICO
(State or Territory)

The elevation of the derrick floor above sea level is LATER ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Spudded 11" hole at 7:30 P.M. 8-8-60. Ran 207' (5 Jts) 7-5/8" 26.4 J-55 casing set at 219'. Cement with 140 sacks Reg neat cement with 2% cal chloride. Cement circulated. Tested casing with 1000# for 30 min- no drop in pressure. Drilling.



I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

HUMBLE OIL & REFINING COMPANY

Company

Address BOX 2347

HOBBS, NEW MEXICO

ORIGINAL
SIGNED:

ARVIN D. EASBY

By

Title AGENT

Form 9-521b
(April 1952)

X			

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 43-R359.4
Approval expires 12-31-60.

Indian Agency 14-20-603-2172

Allottee _____

Lease No. 240973

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	X	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Navajo Tribe of Indians "L"

July 22, 1960

Well No. 1 is located 1980 ft. from N line and 660 ft. from W line of sec. 26

SW/4 of NW/4 29-N 14-W Meridian
(4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Ojo Gallup San Juan New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is _____ ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudlogging jobs, cementing points, and all other important proposed work)

CASING PROGRAM

Size	Wt.	Depth
7-5/8 or		
8-5/8	24#	200'
4-1/2	9.5#	5500'

CEMENTING PROGRAM

Circulate to surface.
Circulate to above Point
Lookout @ approximately 3700'.

CORING PROGRAM

(3) 5300-5450 Gallup

HOWCO method of cementing to be used.

Minimum mud for samples.

Proposed total depth 5500' to test the Gallup.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Humble Oil & Refining Co.

Address Box 1600
Midland, Texas

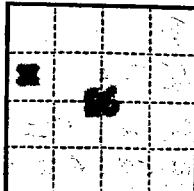
By V. D. East

Title Area Adm.

(SUBMIT IN TRIPLICATE)

Indian Agency

Marajo



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee

Lease No.

11-20-603-2172

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	CONVERT TO WATER INJECTION WELL	X

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

L-1 **March 4**, 19 **63**
SW 1/4 Sec 26
 Well No. **22-65** is located **1900** ft. from **[N]** line and **640** ft. from **[W]** line of sec. **26**
SW 1/4 Section 26 **R27** **11W** **R27N**
 (1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
One 1/4 Section **San Juan** **New Mexico**
 (Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is _____ ft. **5813' W**

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudlogging jobs, cementing points, and all other important proposed work)

TO 5850', FROM 5847'.

Well pump, rods and tubing pulled, tubinghead removed, replaced with gauge and valve assembly, converting to water injection for secondary recovery through original perforations.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **Marble Oil & Refining Company**

Address **P. O. Box 3082**

Durango, Colorado

By **COPY (ORIGINAL SIGNED) B. M. BRADLEY**

Title **Dist. Dept.**

HISTORY OF OIL OR GAS WELL

16-43004-2

U. S. GOVERNMENT PRINTING OFFICE

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "detached" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

Casing size	Depth from surface	Depth from previous casing	Material	Amount	Kind of shoe	Cost and bailing from	Perforated	Remarks
-------------	--------------------	----------------------------	----------	--------	--------------	-----------------------	------------	---------

Spudded 11" hole at 7:30 PM 8-8-60, using 207' of 7-5/8" 26# J-55 casing, set at 212'. Ran 5474' of 4-1/2" casing, set at 5404', cut w/165 ax.

Drilled to a total depth of 5488'.

No. 3' from

to

IMPERMEABLE WATER SANDS

Cored as follows: core #1 from 5365 to 5379, core #2 from 5379 to 5387, core #3 from 5387 to 5405, core #4 from 5430 to 5455.

No. 5' from

to

No. 2' from

to

Perforated 4-1/2" casing from 5390 to 5400 w/2 shots per ft.

No. 1' from

to

No. 4' from

to

Frac perforated from 5390 to 5400 w/39741 gal. lease oil and 30,000# sand, averaging injection of 27 BWL. Well shut in 9-19-60.

Commenced drilling

under 8

180

Finished drilling

under 5

1800

The summary on this page is for the condition of the well at above date

Date well completed: 8-13-60

Date received: 8-31-60

Title: None

so far as can be determined from all available records

Signed

21840

ABRAHAM E. EADY

The information given hereafter is a complete and correct record of the well and all work done thereon

Location 3300

1/2" of 2

Line and 1/2" of 2

1/2" of 2

Line of 2

1/2" of 2

Line of 2

1/2" of 2

Line of 2

1/2" of 2

Line of 2

1/2" of 2

Line of 2

Well No. 1

266

50

L. SAN B. IVK

M. I. I. I. I.

1/2" of 2

Line of 2

1/2" of 2

Line of 2

1/2" of 2

Line of 2

1/2" of 2

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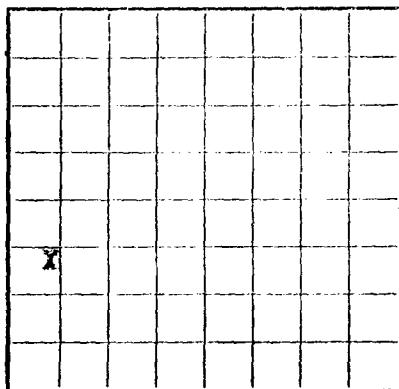
Company

W. J. & W. J. I. I. I. I. I.

Address

Box 537, Hobbs, New Mexico

LOCATE WELL CORRECTLY



LOC OF OIL OR GAS WELL

GEOLOGICAL SURVEY

DEPARTMENT OF THE INTERIOR

UNITED STATES

PLEASE OR PERMIT TO PROSPECT

SERIAL NUMBER

57041

WELL NO. 1

Address expires 12-31-60

See Bureau No. 43-83224

Form 9-330

EMPLOYEES

, Driller

, Driller

B. O. Talent

J. S. Wortman

, Driller

, Driller

B. R. Day

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	5488	5488	Shale and Sand
			<u>Formation Tops</u>
			La-Ventona 1300
			Cliff House 2255
			Point Lookout 3832
			Mancos Shale 4105
			Gallup 5032
FROM—	TO—	TOTAL FEET	FORMATION

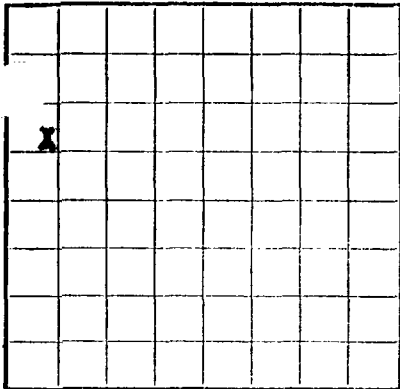
(OVER)

FORMATION RECORD—CONTINUED

Indian Agency
14-20-603-2172

SERIAL NUMBER 240973

LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Humble Oil & Refining Company Address Box 2347, Hobbs, New Mexico
Lessor or Tract Navajo Tribe of Indians I Field Cha Cha Gallup State New Mexico
Well No. 1 Sec. 26 T. 29N R. 14W Meridian NMPM County San Juan
Location 3300 ft. N of S Line and 4620 ft. W of E Line of Sec. 26 Elevation 5813 DP
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed ORIGINAL
ARVIN D. EADY

Date December 22, 1960 Title Agent

The summary on this page is for the condition of the well at above date.

Commenced drilling August 8, 160 Finished drilling August 22, 1960

Summary of production of oil or gas sands or zones - 10-60
Cumulative production from 2300 to 2700 ft. (Derrick gas by 6) 10-60 30,000 bbl.

No. 1, from 5390 to 5400 No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From-	To-	
7 5/8	26.4	8	Halliburton	140	Halliburton	5390	5390	5400	Surface
4 1/2	9.5	8	Halliburton	165	Halliburton	5400	5400	5410	Surface
HISTORY OF OIL OR GAS WELL									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
7 5/8	219	140	Halliburton	-	-
4 1/2	348	165	Halliburton	-	-

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
	None					

TOOLS USED

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

DATES

December 22, 1960 Put to producing September 13, 1960
The production for the first 24 hours was _____ barrels of fluid of which _____ % was oil; _____ %
emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. 100
If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas 41.0
Rock pressure, lbs. per sq. in. _____