

*Temporarily abandoned*

FILE NOTATIONS

Entered in NID File   
Entered On S R Sheet   
Location Map Pinned   
Card Indexed   
IWR for State or Fee Land

Checked by Chief RPS  
Copy NID to Field Office   
Approval Letter   
Disapproval Letter

COMPLETION DATA:

Date Well Completed 8-17-60  
OW \_\_\_\_\_ WW \_\_\_\_\_ TA   
GW \_\_\_\_\_ OS \_\_\_\_\_ PA

Location Inspected   
Bond released \_\_\_\_\_  
State of Fee Land \_\_\_\_\_

LOGS FILED

Driller's Log 1-29-62

Electric Logs (No. ) 2

E \_\_\_\_\_ I \_\_\_\_\_ E-I  GR \_\_\_\_\_ GR-N \_\_\_\_\_ Micro \_\_\_\_\_  
Lat \_\_\_\_\_ Mi-L \_\_\_\_\_ Sonic  Others \_\_\_\_\_

*Call Grant Brown if anything comes in on this well*

*W. Taylor*

*PEA - 1962*

FILE NOTATIONS

Entered in NID File \_\_\_\_\_  
Entered On S R Sheet \_\_\_\_\_  
Location Map Pinned \_\_\_\_\_  
Card Indexed \_\_\_\_\_  
IWR for State or Fee Land \_\_\_\_\_

Checked by Chief \_\_\_\_\_  
Copy NID to Field Office \_\_\_\_\_  
Approval Letter \_\_\_\_\_  
Disapproval Letter \_\_\_\_\_

COMPLETION DATA:

Date Well Completed 8-28-62  
OW \_\_\_\_\_ WW \_\_\_\_\_ TA \_\_\_\_\_  
GW \_\_\_\_\_ OS \_\_\_\_\_ PA

Location Inspected   
Bond released \_\_\_\_\_  
State of Fee Land \_\_\_\_\_

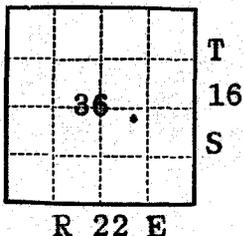
LOGS FILED

Driller's Log 7-7-62

Electric Logs (No. ) \_\_\_\_\_

E \_\_\_\_\_ I \_\_\_\_\_ E-I \_\_\_\_\_ GR \_\_\_\_\_ GR-N \_\_\_\_\_ Micro \_\_\_\_\_  
Lat \_\_\_\_\_ Mi-L \_\_\_\_\_ Sonic \_\_\_\_\_ Others \_\_\_\_\_

*Subsequent Report of abandonment*



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Salt Lake  
State ML-3905  
Lease No. \_\_\_\_\_  
Unit Diamond Ridge

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	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)

May 17, 1960

Well No. 4 is located 2492 ft. from XXX line and 1709 ft. from E line of sec. 36

SE 1/4 36 16S 22E -  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Diamond Ridge Grand Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the ~~surface~~ ground above sea level is 6849 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)

We propose to drill this well with rotary tools to 8000' for a Dakota-Morrison-Entrada test. We propose to set 13-3/8" surface casing through surface gravels at approximately 150' and cement to surface of ground; drill 12-1/4" hole through Castlegate at approximately 3500'; set 9-5/8" OD casing to bottom and cement; drill with air through Dakota and Morrison sands and set 7" OD casing on bottom; drill plugs and continue drilling to Entrada.

This well location is off pattern because of terrain.  
A plat is attached.  
A drilling and plugging bond has been filed with the State of Utah.

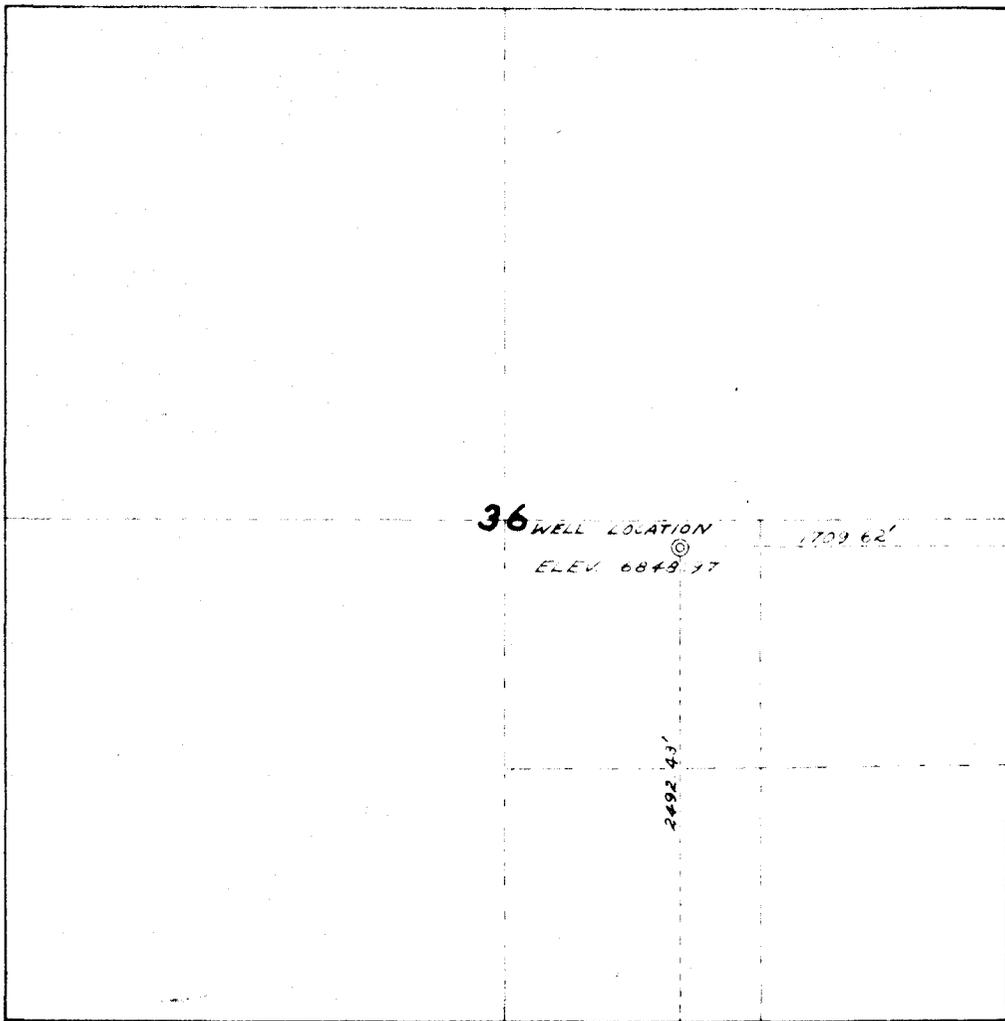
I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Sunray Mid-Continent Oil Company

Address P. O. Box 2692

Denver 1, Colorado

By F. S. Goddard  
F. S. Goddard  
Title Production Coordinator



N



WELL LOCATION

DIAMOND RIDGE UNIT NO. 4

SUNRAY MID-CONTINENT OIL CO.

DENVER, COLORADO

SITUATED IN NW 1/4 SE 1/4 SECTION 36

T. 16 S., R. 22 E. S. L. B. M.

GRAND COUNTY, UTAH

SCALE 1 INCH = 1000 FEET

REFERENCE POINTS

EAST 160.0' - ELEV. 6859.32

WEST 80.0' - ELEV. 6865.70

THIS IS TO 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 ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF  
DATE SURVEYED MAY 1, 1960

*Tom Walker*  
TOM WALKER  
GLENWOOD SPRINGS, COLORADO  
REGISTERED LAND SURVEYOR  
CERTIFICATE NO. 1548

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

State Capitol Building  
Salt Lake City 14, Utah

REPORT OF OPERATIONS AND WELL STATUS REPORT

State Utah County Grand Field or Lease Diamond Ridge Unit

The following is a correct report of operations and production (including drilling and producing wells) for  
May, 1960

Agent's address P. O. Box 2692 Company Sunray Mid-Continent Oil Company

Denver 1, Colorado Signed F. S. Goddard

Phone Cherry 4 2961 Agent's title Production Coordinator

State Lease No. ML-3905 Federal Lease No. \_\_\_\_\_ Indian Lease No. \_\_\_\_\_ Fee & Pat.

Sec. & 1/4 of 1/4	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)
NE NW SE Sec. 36	16S	22E	4	drilling				Spud 5/31/60 Drilled 12 1/4" hole TD 178' and presently reaming at 170'

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

FILE IN DUPLICATE

\*STATUS: F-Flowing P-Pumping GL-Gas Lift  
SI-Shut In D-Dead  
GI-Gas Injection TA-Temp. Aban.  
WI-Water Injection

May 19, 1960

Sunray Mid-Continent Oil Company  
P. O. Box 2692  
Denver 1, Colorado

Attention: P. S. Goddard, Prod. Coordinator

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Diamond Ridge Unit 4, which is to be located 2492 feet from the south line and 1709 feet from the east line of Section 36, Township 16 South, Range 22 East, Grand County, Utah.

Please be advised that insofar as this office is concerned approval to drill said well is hereby granted.

This approval terminates within 90 days if the above mentioned well is not spudded in within said period.

Under Rule A-3, the approval of this Commission is not necessary when an unexecuted copy of the unit agreement is on file with this office. In such a case, it is only necessary to file copies of all notices of intention and subsequent reports that are filed with the United States Geological Survey.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT,  
EXECUTIVE SECRETARY

CBF:awg  
cc: State Land Board  
State Capitol Bldg.  
Salt Lake City, Utah

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

State Capitol Building  
Salt Lake City 14, Utah

REPORT OF OPERATIONS AND WELL STATUS REPORT

State Utah County Grand Field or Lease Diamond Ridge Unit

The following is a correct report of operations and production (including drilling and producing wells) for

June, 1960

Agent's address 424 Patterson Building Company Sunray Mid-Continent Oil Company

Denver 2, Colorado

Signed

*F. S. Goddard*  
F. S. Goddard

Phone AC 2-1859

Agent's title Production Coordinator

State Lease No. ML-3905 Federal Lease No. \_\_\_\_\_ Indian Lease No. \_\_\_\_\_ Fee & Pat.

Sec. & 1/4 of 1/4	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)
NE NW SE Sec. 36	16S	22E	4	drilling				TD 8300' running 5 1/2" OD casing. Top of Morrison estimated at 7756'.

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

FILE IN DUPLICATE

\*STATUS: F-Flowing P-Pumping GL-Gas Lift  
SI-Shut In D-Dead  
GI-Gas Injection TA-Temp. Aban.  
WI-Water Injection

096187 708

January 23, 1961

Sunray Mid-Continent Oil Co.  
101 University Blvd.  
Cherry Creek Center  
Denver 6, Colorado

Attn: F. S. Goddard, District Production Coordinator

Re: Well No. Diamond Ridge Unit #4  
Sec. 36, T. 16 S., R. 22 E.,  
Grand County, Utah

Gentlemen:

We have not as yet received a well log on the completion of the above mentioned well. We have been receiving your monthly reports and do realize that this well is presently shut-in for pressure build up and has been since August, 1960. However, this well log should be filed in accordance with Rule C-5 of our General Rules and Regulations and Rules of Practice and Procedure, which states, "Within ninety (90) days after the suspension of operations on, abandonment of, or the completion of any well drilled for the production of oil or gas, and within ninety (90) days after the completion of any further operations on it, if such operations involved drilling deeper or drilling or redrilling any formation, a well log shall be filed with the Commission, on a form prescribed by the Commission, ---".

Would you please complete the enclosed Form OGCC-3, "Log of Oil or Gas Well", and return in duplicate to this office as soon as possible.

Your attention to the above request will be very much appreciated.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

ANN W. GLINES,  
RECORDS CLERK

AWG:kpb  
Enclosures: (3)

USE TYPEWRITER.

LEASE Diamond Ridge WELL NO. 4  
SEC. T R. R COUNTY \_\_\_\_\_  
STATE \_\_\_\_\_ FIELD \_\_\_\_\_  
A.F.E. NO. \_\_\_\_\_

HISTORY OF WELL  
AT TIME OF COMPLETION

Page 7

ALL DEPTHS FROM TOP OF KELLY BUSHING UNLESS OTHERWISE SPECIFIED

- 7-16-60 TD 8370' PBD 8251'. Shut in tearing down rig. Progress none. SITP 100#. SICIP 1,200#. Will open this A.M.
- 7-17-60 TD 8370' IPTD 8251'. Tearing down rig. Progress none. SI 36 hrs. total. SITP 200#, SICIP 1,500#. Opened on 1/2" ck. Flowed 22 bbls. diesel oil with 2% water in 2 hrs. Died. SI for buildup.
- 7-18-60 Moving out rig. 24 hrs. SI. SITP 200#, SICIP 300#. Opened on 1/2" ck. Blew down immediately. SI for buildup.
- 7-19-60 Moving out rig. After 24 hrs. SITP 950#, SICIP 1,450#. Opened on 1/2" ck. Flowed 12 bbls. diesel oil in 45 min. and died. Lack 559 bbls. load oil. SI for buildup.
- 7-20-60 SI Moving out rig. 24 hrs. SITP 1,050#, SICIP 1,350#. Opened through tubing on 1/2" Choke. Flowed 7 bbls. diesel oil in 30 minutes and died. SI for buildup. Lack 552 bbls. load oil.
- 7-21-60 Testing. CP 1,300 TP 1000 flwd. 7B diesel 2% with 1 hr. CP70 TP 60, 3/4" CK. SI overnight. will flow again today flowing continuous.
- 7-22-60 Flowing. CP 1,300 TP 1075 flwd. 5.6 BLo 4 1/2 hours. CP 175 TP 25 still flowing - Lack 539 Barrels.
 

<u>Entrada</u> -	Ca 2700ppm	Spgr 80° 1.065	
	Mg 1720	PH 6.5	
	Na 28,000		
	Cl - 53,100	<u>Morrison</u>	SO <sub>4</sub> 220
	SO <sub>4</sub> 90	Ca 3200	HCO <sub>3</sub> 85
	HCO <sub>3</sub> 87	Mg 580	CaCl/Mgd 4.2
	CaCl/Mgd 1.05	Na 19,000	Sp Gr 1.045
		Cl 37,000	PH 6.4
- 7-23-60 ← CP built to 1275#, TP to 960#. Opened through tubing on 1/2" choke. Flowed 5 bbls. diesel oil in 4 1/2 hrs. open. CP decline to 170#, TP to 28#. SI for buildup.

*Comp. chart*

CORRECT \_\_\_\_\_

ENGINEER

APPROVED \_\_\_\_\_

SUPERINTENDENT



HISTORY OF WELL  
AT TIME OF COMPLETION

LEASE Diamond Ridge Unit WELL NO. 4  
 SEC. T. R. COUNTY  
 STATE FIELD  
 A.F.E. NO.

Page 5

ALL DEPTHS FROM TOP OF KELLY BUSHING UNLESS OTHERWISE SPECIFIED

- 7-5-60 TD 8370'. Testing Lower Brushy Basin Sand. Progress 0. Finished running Schlumberger GR, Induction and Sonic logs. Log top of Entrada @ 8346'. Ran Lane Wells Cemoton log from 6800' to 8314'. Top of cement behind 5 1/2" OD casing at 6935'. Set Baker CI retainer on L-W wire line @ 8260'. L-W dumped 1 sack cement on plug. Top of salt water at 3200'. Ran 2 7/8" tubing and unloaded salt water with air down to 8160'. Pulled tubing up to 7790'. Installed Christmas tree. Ran L-W Bearcat 2 3/16" gun through 2 7/8" tubing and perforated with four jets per foot at 7980-94 (Schl.), 7986-8000' (L-W). Gas to surface in three minutes. Job complete @ 7 a.m. 7-5-60. Connected through heater and separator. Testing.
- 7-6-60 TD 8370'. PBT 8260'. Going in hole with Dowell Abrasive jet and will cut notch @ 7989' to frac. Flowed and test well 9 hrs. - 150 MCF/day on 1/4" choke tub. press. 130#, 228 MCF/day on 1/2" choke, 30# tub press. 226-300 MCF on 3/4" choke. Small amount of distillate, 25-30# tub. press. Now in hole with Dowell abrasive jet. Cut notch @ 7989' - (Sch. meas.) to frac.
- 7-7-60 PBT 8260'. Swabbing. Completed notching @ 7989' and @ 7982' (Schlumberger Measurement) circulated and cleaned up hole. Pumped in formation with 20 bbls. diesel oil at 7 bbl. per minute rate at 3500#, ISIP-900#, on Vacuum 2 1/2 minutes. Complete notching @ 10:55 a.m. 7/2 and pull tubing. Rigged up Dowell. Broke down formation with 67 bbls. @ 3250#, 32 bbl. per minute. Frac with 30,000 gal. diesel oil, 30,000# Sand & 750# Atomite. Minimum treating pressure 3250# @ 32 bbls. per minute. Maximum treating pressure 4150# @ 26 bbls. per minute. Average treating pressure 3900# @ 27.1 bbls. per minute. Flush with 187 bbls. ISIP 2400#. 3 hr. SIP 700#. Total fluid to recover 1192 bbls. 4 hrs. total S.I. Flowed 19 bbls. in 3 hrs and died. Ran Baker full bore and set @ 7922'. Started swab at 5:30 a.m. 7/7, swab 38 bbls. in 1 1/2 hrs. 1135 bbls. of oil yet to recover.
- 7-8-60 PBT 8260. Swabbing. Swabbed 138 bbls. diesel oil in 24 Hrs. Fluid level @ 5000'. Making some gas on swabs. 997 barrels of oil yet to recover.
- 7-9-60 TD 8370'. PBT 8251'. Swabbed 56 bbls. diesel oil. 15 1/2 hrs. swabbing. 8 1/2 hrs. splicing swab line. SITP 600# after 6 hrs. while splicing line and fluid level built up to 3400' from surface. Pressure blew off when opened. Now swabbing from 7400' with fluid level @ 6000'.
- 7-10-60 TD 8370'. PBT 8251'. 18 hrs. swabbing. 6 hrs. splicing swab line. Swabbed from 7900' with fluid level at 7000' to 7200'. Recovered 80 bbls. diesel oil. While shut in TP increased to 150# and fluid raised to 6000' in 1 hr. TP increased to 450# and fluid level raised to 5100' in 4 hrs. Lack 861 bbls. load oil.

CORRECT

ENGINEER

APPROVED

SUPERINTENDENT

36-165-22E

HISTORY OF WELL  
AT TIME OF COMPLETION

LEASE Diamond Ridge Unit WELL NO 4  
SEC T R COUNTY  
STATE FIELD  
A F E NO

Page 4

ALL DEPTHS FROM TOP OF KELLY BUSHING UNLESS OTHERWISE SPECIFIED

- 6-27-60 TD 7939'. Drilling with air. Progress 77'. Drilled to 7892'. Twisted off at 5650'. Recovered fish.. Drilled ahead. Small amount dampness on cuttings after trip. No change in gas volume. Bit # 22, Hughes, W7R2. Serial No. 73585 in at 7892'.
- 6-28-60 TD 8300'. Preparing to log. Progress 361'. Gas at 7979'. Lower Brushy Basin. Drilling break 7979-90'. Gas increased to 810 MCF/day. (380 MCF/day increase) 50# on 3/4" orifice. Gas is wet with distillate. Top of Entrada expected @ 8335' to 8340'. Bit #23, Hughes, RG7J in at 7939'.
- 6-29-60 TD 8300'. Running logs. Progress none. Pulled up into 9 5/8" OD @ 3500'. Loaded hole with inverted oil emulsion mud. Conditioned hole each 10 stands while going to bottom. Circulated 2 1/2 hrs. on bottom. Talled out drill pipe. Logging. 8.2#. - 92 sec. - 0 cc. Used 209 sx. no-blok, 330 bbls. diesel oil.
- 6-30-60 TD 8300'. Running 5 1/2" OD casing. Progress 0. Finished running Gamma Ray-Induction and Sonic logs. Log TD 8299'. Top of Dakota @ 7568'. Top of Morrison? @ 7756'. Salt wash @ 8010'. Expect top of Entrada at 8345'. Ran Howco hook-wall packer and set @ 1000', 2300' and 3870' and pressure up to test 9 5/8" OD casing. No leak @ 900#. Ran 8 3/4" bit to bottom. Circulated 2 1/2 hrs. Laid down D.P. Running 5 1/2" OD, 17#, N-80 casing.
- 7-1-60 TD 8308'. Picking up 2 7/8" EVE Tubing. Progress 0'. Corrected TD from 8300' to 8308'. Finished running 253 jts. 5 1/2" OD, 1X-80, 17#, LT & C and set @ 8306'. Float @ 8272'. Used 10 Baker scratchers & 9 centralizers. Cemented with 450 cu. ft. 20% Diacel-Cement. Plug down 2:50 p.m. 6/30/60. Connected up on 5 1/2" OD. Picked up 8 - 3 1/2" OD drill collars.
- 7-2-60 TD 8308. Drilling plug. Progress 0. Finished picking up 10 - 3 1/2" OD, drill collars and 2 7/8" EVE tubing. Found top of cement at 8258', plug @ 8270'. Drilled to 8303' and bit plugged. Making trip.
- 7-3-60 TD 8320'. Drilling with air. Progress 12'. Drilled shoe with mud. Unloaded and drilled hole with air. Drilling ahead with air. Bit #24, Hughes, 4 3/4" W7R, Serial No. 34959 in at 8308'.
- 7-4-60 TD 8370'. Logging. Progress 50'. Top of Entrada at 8349'. Salt <sup>water</sup> ~~water~~ at 8367'. Finished hole to 8370' at 11 p.m. 7-3-60. Three hrs. blowing hole and obtaining samples. Run induction log. Running Sonic log.

THIS FORM TO BE SUBMITTED ALONG WITH FORM NO. 114 NOT LATER THAN 30 DAYS AFTER WELL COMPLETION OR ABANDONMENT OF A DRY HOLE. SHOW HISTORICAL DETAILS IN CHRONOLOGICAL ORDER WITH DATE, LOCATION AND DEPTH OF HOLE. SHOW CHANGES IN TYPE OF MUD WITH REASONS. LOSS OF CIRCULATION, BLOWOUTS, SURVEYS FOR DEVIATION FROM VERTICAL, DRILL STEM TESTS, CORING DEPTHS, ELECTRICAL SURVEYS, DESCRIPTION OF PROBABLY PRODUCING ZONES CASED OFF, DESCRIPTION OF CASING JOBS SHOWING TYPES OF SHOES AND FLUAT EQUIPMENT, DETAILS OF CASING PULLED PRIOR TO COMPLETION, SIDETRACKED FISH, SHOT AND ACIDIZING RECORDS, PLUGS, ETC.

USE TYPEWRITER.

HISTORY OF WELL  
AT TIME OF COMPLETION

LEASE Diamond Ridge Unit WELL NO. 4  
SEC. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_ COUNTY \_\_\_\_\_  
STATE \_\_\_\_\_ FIELD \_\_\_\_\_  
A.F.E. NO. \_\_\_\_\_

Page 3

ALL DEPTHS FROM TOP OF KELLY BUSHING UNLESS OTHERWISE SPECIFIED.

- 6-18-60 TD 3879'. Drilling. Progress 82'. Bit #18, OSC1G, Ser. No. 40766, in at 3815'. 9.7# - 113 sec. - 4.0 cc.
- 6-19-60 TD 3884'. WOC and connecting up. Progress 5'. Top of Castlegate 3784'. Ran Schlumberger IFS and Microlog. Log TD 3877'. Drilled 5' while conditioning hole. Ran 26 jts. 9 5/8" OD, 36#, J-55 casing and set @ 3876.60' with 300 sx regular cement with 2% ca cl. Plug down @ 11:35 p.m. 6-18-60. Cut off 9 5/8" OD and connecting up.
- 6-20-60 TD 3922'. Drilling. Progress 38'. Finished connecting up @ 9 5/8" OD. Started drilling cement @ 7:00 p.m. 6-19-60. Drilled to 3900' and dried up hole. Pulled bit. Reran bit with Servco reamer and Drilco stabilizer drilling @ 3922'. Bit #19, Hughes, 8 3/4" Rerun, Ser. No. 53369 in at 3884. Used air.
- 6-21-60 TD 4730'. Drilling. Progress 808'. 50# air. 45 to 60 RPM. Bit #19, Hughes Rerun, RQ7J, Ser. No. 53369 in at 3900'. 3 1/2" @ 4045'. 4 1/2" @ 4345'. 4 3/4" @ 4730'. 4 3/4" @ 4482'. 4 1/2" @ 4636'. 4 1/2" @ 4513'. Used air.
- 6-22-60 TD 5330'. Drilling. Progress 600'. Made trip @ 5257' to recover Totco. Laid down 3 D.C. and stabilizer and reamer. 65 R.P.M. 11 - 6 3/4" D.C. in hole. Bit #20, Hughes, RQ7, Ser. No. 50230 in at 5257. 4 1/2" @ 4855'. 4 1/4" @ 4978'. 4 3/4" @ 5133'. 5 1/4" @ 5314'. Used air.
- 6-23-60 TD 5870'. Drilling with air. Progress 540'. Running 5,000# on bit - 65 RPM. 5 3/4" @ 5804'. 5 1/4" @ 5406'. 6" @ 5866'. 5 1/4" @ 5498'. 5 1/2" @ 5622'. 5 3/4" @ 5713'.
- 6-24-60 TD 6670'. Drilling. Progress 800'. Running 10,000# weight. 4 3/4" @ 6297'. 6" @ 5227'. 4 1/4" @ 6421'. 5 3/4" @ 5950'. 4 1/4" @ 6607'. 5 1/4" @ 6112'. 5 1/4" @ 6204'. Used air.
- 6-25-60 TD 7615'. Drilling with air. Progress 945'. Had gas pockets in Mancos shale @ 6297', 7433' and 7590'. Flared up and died immediately. 4 1/4" @ 6731. 4" @ 7258'. 4 1/4" @ 6844'. 3" @ 7414'. 3 3/4" @ 6980'. 2 1/2" @ 7568'. 3 1/2" @ 7135'.
- 6-26-60 TD 7862'. Drilling with air. Progress 247'. Strapped pipe on trip @ 7722: Corrected TD from 7727' to 7722'. Top of Dakota at 7650' from samples. Gas at 7739' with 2' drilling break. Drilled to 7745'. Tested 400 MCF gas on 3/4" check. Sample top of Cedar Mountain @ 7750' with no increase in gas. Drilled to 7862' and tested 430 MCF gas on 3/4" check.

CORRECT

ENGINEER

APPROVED

SUPERINTENDENT

THIS FORM TO BE SUBMITTED ALONG WITH LOG NO. 114 NOT LATER THAN 10 DAYS AFTER WELL COMPLETION OR ABANDONMENT IF A DRY HOLE. SHOW HISTORICAL DETAILS IN CHRONOLOGICAL ORDER WITH DATE, LOCATION AND DEPTH OF HOLE. SHOW CHANGE IN TYPE OF MUD WITH REASONS. LIST SERVICATION, BLOWOUTS, SURVEYS FOR DEVIATION FROM VERTICAL, DAILY STEM TESTS, LOGGING DEPTH, ELECTRICAL LOGS, LENSES, DESCRIPTION OF FORMER PRODUCING ZONES CASED OFF, DESCRIPTION OF CASING JOBS SHOWING TYPES OF SHOES AND FLOAT EQUIPMENT, DETAILS OF CASING PULLED PRIOR TO COMPLETION, SIDETRACKED FISH, SHOT AND ACIDIZING RECORDS, FLUGGS, ETC.

USE TYPEWRITER

LEASE Diamond Ridge Unit WELL NO. 4  
 SEC. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_ COUNTY \_\_\_\_\_  
 STATE \_\_\_\_\_ FIELD \_\_\_\_\_  
 A F E NO \_\_\_\_\_

HISTORY OF WELL  
 AT TIME OF COMPLETION

Page 2

ALL DEPTHS FROM TOP OF KELLY BUSHING UNLESS OTHERWISE SPECIFIED.

- 6-8-60 TD 2060'. Drilling. Progress 222'. Down 8 hrs. Clutch trouble. Lost 50 bbls. mud. Slight drag on trips. Bit #8, Hughes OSC10, Ser. No. 40428, in at 1838'. Bit #9, Reed, YT-1, Ser. No. 302892, in at 1932'. 9.1# - 103 sec. - 4.4cc. Used 5 sx gel, 75# driscose, 100# kembreak, 150# spersene, 200# lime.
- 6-9-60 TD 2375'. Drilling. Progress 315'. Bit # 10, Reed, YT-1, Ser. No. 302890, in at 2176'. 3° @ 2176'. 3 1/2° @ 2330'. 9.1# - 98 sec.-4.2 cc. Used 33 sx gel, 300# kembreak, 300# C, 450# lime, 300# Impermex.
- 6-10-60 TD 2570'. Drilling. Progress 195'. Bit #11, Reed, YT-1, Ser. No. 302891, in at 2406'. 2 3/4° @ 2406. 2 3/4° @ 2517. 9.6# - 104 sec. - 4.0 cc. Used 25 sx gel, 135 # driscose, 200# Impernax, 6 sx lime, 200# caustic, 200# kembreak.
- 6-11-60 TD 2805'. Drilling. Progress 235'. Bit # 11, Hughes OSC, in at 174'-16 1/2 hr. Bit #12, Hughes OSC, Ser. No. 40418, in at 2580'.
- 6-12-60 TD 3011'. Drilling. Made 272' in 24 hrs. (Bit #12) Made 262' in 27 hrs. (Bit #13, Hughes OSC10, Ser. No. 47985, in at 2854. Used 16 sx gel, 150# driscose, 6 sx lime, 250# caustic, 200# Impermex, 225# Quebraco.
- 6-13-60 TD 3181'. Drilling. Progress 170'. Bit #11, Hughes, OSC10, Ser. No. 40429, in at 3116'. 3 3/4° @ 3070'. 3 1/2° @ 3116. 9.6# - 87 sec. - 4.0 cc. Used 24 sx gel, 25# driscose, 9sx lime, 225# caustic, 250# Impermex, 300# Quebraco, 20 bbls. diesel.
- 6-14-60 TD 3322'. Drilling. Progress 141'. Hard sand and sh. Made 160' w/bit #14 in 19 1/2 hr. Bit #15, Hughes, OSC, Ser. No. 35174 in at 3274'. 3 1/4° @ 3195. 2 1/4° @ 3274. 9.5# - 85 sec. - 4.0 cc. Used 25 sx gel, 275# Quebraco, 50# Impernax, 9 sx lime, 225# caustic, 10 bbl. oil.
- 6-15-60 TD 3535'. Making trip to change bit. Progress 213'. Sd. and shale. Bit #15 made 259' in 26 1/2 hr. 9.6# - 89 sec. - 4.2 cc. Used 44 sx gel, 5 sx lime, 6 sx millogel, 225# caustic, 225# Quebraco.
- 6-16-60 TD 3661'. Making trip. Progress 126'. Bit #16, Hughes, OSC, Ser. No. 34652 in at 3535', made 126' in 19 3/4 hrs. 9.7# - 84 sec. - 42 cc. Used 31 sx jel, 7 sx lime, 7 sx milo starch, 150# Quebraco, 150# caustic, 10 bbl. diesel.
- 6-17-60 TD 3797'. Drilling, Progress 136'. Making short trips every six hours to keep hole clear. Bit #17, Hughes, OSC10, Ser. No. 40420 in at 3661. 2 1/2° @ 3661'. 9.7# - 91 sec. - 4.4 cc. 38 sx jel, 9 sx lime, 6 sx starch, 300# caustic, 225# Quebraco, 10 bbl. diesel.

CORRECT

ENGINEER

APPROVED

SUPERINTENDENT

THIS FORM TO BE SUBMITTED ALONG WITH FORM NO. 114 NOT LATER THAN 10 DAYS AFTER WELL COMPLETION OR ABANDONMENT IF A DRY HOLE. SHOW HISTORICAL DETAILS IN CHRONOLOGICAL ORDER WITH DATE, CONDITION AND DEPTH OF HOLE. SHOW CHANGES IN TYPE OF MUD WITH REASONS. LOST CIRCULATION, BLOWOUTS, SURVEYS FOR DEVIATION FROM VERTICAL, DRILL STEM TESTS, CORING DEPTHS, ELECTRICAL SURVEYS, DESCRIPTION OF POSSIBLE PRODUCING ZONES CASED OFF, DESCRIPTION OF CASING JOBS SHOWING TYPES OF SHOES AND FLOAT EQUIPMENT, DETAILS OF CASING PULLED PRIOR TO COMPLETION, SIDETRACKED FISH, SHOT AND ACIDIZING RECORDS, PLUGS, ETC.

USE TYPEWRITER

HISTORY OF WELL  
AT TIME OF COMPLETION

LEASE Diamond Ridge Unit WELL NO. 4  
SEC. 36 T. 16S R. 22E COUNTY Grand  
STATE Utah FIELD Diamond Ridge  
A.F.E. NO. \_\_\_\_\_

ALL DEPTHS FROM TOP OF KELLY BUSHING UNLESS OTHERWISE SPECIFIED.

8500' Entrada Exploratory well, SDX 1.00  
Camay Drilling Company, Contractor

Location staked by Tom Walker 2492' FSL & 1709' FEL of Section 36-T16S-R22E.

5-31-60 RURT

6-1-60 TD 178'. Drilling. Progress 178'. Spudded @ 3:00 p.m. 5-31-60. Drilled 12 1/4" hole to 178'. Reaming to 17 1/4" hole at 170'. Bit #1, Hughes OSC Retip in at 0'. Used 58 sx gel, 2 sx lime.

6-2-60 TD 178'. Prep. to drill cement plug. Progress 0'. Finished reaming 17 1/4" hole at 9:00 a.m. 6-1-60 to 178'. Ran 3 jts. 48, #H-40 and 3 jts. 54.5, #J-55, 13 3/8" OD csg. w/Baker guide shoe, 2 centralizers, set @ 174'. Cemented w/150 sx reg. cement w/3% ca cl. Circ. 15 sx, left 20' or 16 sx in csg. Plug down 2:15 p.m. 6-1-60.

6-3-60 TD 370'. Drilling. Progress 192'. Hard drilling, adding collars. Drilled to 229' w/#2 Bit. Drilled cement A 10:00 a.m. 6-2-60, hit water @ 220'. Drilling with air to 229'. Changed to mud @ 229'. Bit #2, Hughes, W7, Ser. no. 44993 in at 178'. Bit #3, Hughes OSC10 Retipped, in at 229'. 32 sec, 20 cc. Used 6 sx driscose, 12 sx lime, 15 sx gel, 5 spersene.

6-4-60 TD 985'. Drilling. Progress 615'. Bit #4, Smith, Retip, 640'. Dev. 1/2" @ 392'. 1 1/2" @ 630'. 8.6# - 38 sec. - 10,0cc.

6-5-60 TD 1362'. Drilling. Progress 377'. Started trip at 1228'. Hole tite at 770'. Went back to bottom and drilled to 1240'. Made trip and had to rotate out from 770' to 600'. Bit #5, Hughes OSC10 Retip, in at 1240'. 1 1/2" @ 1011'. 8.8# - 42 sec. - 6.0 cc. Used 8 sx gel, 175# driscose, 400# spersene, 700# caustic, 1000# lime, 700 bbls. oil.

6-6-60 TD 1510'. Drilling. Progress 148'. Trip @ 1461'. 17 1/4 hrs. to make trip. Hole tight at 770', and bottom 241'. Bit #6, Hughes OSC10 Retip, in at 1461'. 1 1/2" @ 1384'. 8.9# - 95 sec. - 4.0 cc. Used 32 sx gel, 125# driscose, 100# Impermex, 10 sx Mica.

6-7-60 TD 1838'. Making trip to change bit. Progress 328'. Bit #7, Hughes, OSC10, Ser. No. 38004, in @ 1623'. 1 1/2" @ 1710'. 9.2# - 121 sec. - 3.6 cc. Used 275# lime, 150# driscose, 150# starch, 50# spersene, 100# caustic, 23 sx gel, 70 bbls. diesel oil.

CORRECT

ENGINEER

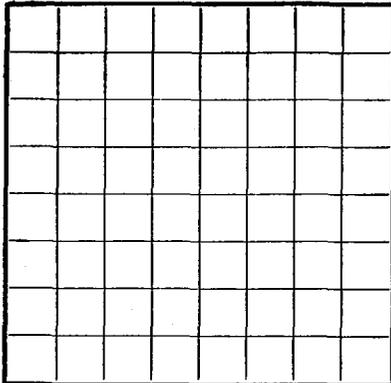
APPROVED

SUPERINTENDENT

R28  
10

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

State Capitol Building  
Salt Lake City 14, Utah



LOCATE WELL CORRECTLY

To be kept Confidential until \_\_\_\_\_  
(Not to exceed 4 months after filing date)

LOG OF OIL OR GAS WELL

Operating Company SUNRAY MID-CONTINENT OIL Address 101 University Blvd., Denver 6, Colo.  
Lease or Tract: Diamond Ridge Unit Field Diamond Ridge State Utah  
Well No. 4 Sec. 36 T. 16S R. 22E Meridian S1M County Grand  
Location 2492 ft.  $\left\{ \begin{matrix} N \\ X \end{matrix} \right\}$  of S Line and 1709 ft.  $\left\{ \begin{matrix} E \\ W \end{matrix} \right\}$  of E Line of Section 36 Elevation 6861' KB  
(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 [Signature]  
F. S. Goddard  
Title District Production Coordinator

Date January 25, 1962

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

Commenced drilling May 31, 1960 Finished drilling July 5, 1960

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 7974' to 7997' (G) No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from 7740' to 7758' (G) 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 \_\_\_\_\_

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From-	To-	
13 3/8	48 & 54	8	Nat'l	174'	Guide	None			
9 5/8	36	8	CF & I	3877'	Guide	None			
5 1/2	17	8	CF & I	8306'	Guide	None	7980 Notch	7994 7745	Prod. Test Prod. Test

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
5 1/2	8306'	450	Pump & Plug	8.2#	

PLUGS AND ADAPTERS

LD MARK

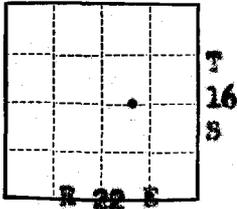


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Land Office Salt Lake City, Utah  
Lease No. State ML 3905  
Unit Diamond Ridge

(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



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	X	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	X		

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

June 25, 1962

Well No. 4 is located 2492 ft. from IX line and 1709 ft. from EW line of sec. 36

SE 1/4 Sec. 36 16S 22E S1EM

(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Diamond Ridge Grand County Utah

(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6861 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)

Presently T.A. T.D. 8306'. 13 3/8" csg. at 171' with 150 sacks. 9 5/8" OD csg. at 3879' with 300 sacks (Approx. top 3194'). 5 1/2" OD csg. at 8306' with 450 cu. ft. cement. Top cement 6935'. Perfs - 7980 to 94', Notches 7982 & 7989' in lower Brushy Basin. Non-commercial. Set castiron packer with expendable plug @ 7965' - Notch Cedar Mt. @ 7745'. Non-commercial. Formation tops: Castle-gate 3875' - Dakota 7568' Cedar Mtn. 7690' - Brushy Basin 7757' - Entrada 8010'.

Propose to P & A by setting castiron bridge plug in 5 1/2" csg. @ 7650' & placing 50 sacks plug @ cut off approx. 6800-6670'. Placing 40 sacks cement plug across bottom of 9 5/8" csg. from 3900'-3800'. Full 9 5/8" csg. and placing 80 sacks cement plug across bottom 13 3/8" csg. from 195' - 95'. Placing 10 sacks cement plug in top 13 3/8" csg. and installing dry hole marker in same.

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

Company SUNRAY OIL COMPANY

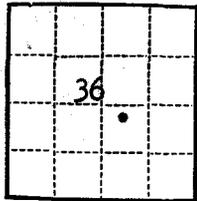
Address 101 University Blvd.  
Denver 6, Colorado

By J. Goddard  
District Production Coordinator

Title \_\_\_\_\_

*Copy H. L. C.*

*PHB 7*



T  
16  
S

(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Salt Lake City  
Utah  
Lease No. State ML 3905  
Unit Diamond Ridge

R22E

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.....	<b>X</b>
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.....	<b>X</b>
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)

September 4, 1962

*1960*

Well No. 4 is located 2492 ft. from N line and 1709 ft. from E line of sec. 36

SE 1/4 Section 36                      16S                      22E                      S1E1M  
(1/4 Sec. and Sec. No.)                      (Twp.)                      (Range)                      (Meridian)

Diamond Ridge                      Grand County                      Utah  
(Field)                      (County or Subdivision)                      (State or Territory)

The elevation of the derrick floor above sea level is 6861 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)

T.D. 8370'. Load hole with mud and pulled 2 7/8" tubing 8-11-62. Commenced plugging and casing pulling operations 8-19-62. Set Baker cast-iron bridge plug at 7500' using McCullough wire line. Free point 5 1/2" OD casing using same and cut off 5 1/2" casing at 6720'. Pulled 5 1/2" casing. Set 40 sack cement plug from 3900' to 3796' in open hole and 9 5/8" casing. Shot off 9 5/8" OD casing at 1092'. Pulled same. Placed 80 sack cement plug from 195' to 95' in 13 3/8" casing and open hole. Placed 10 sack cement plug from 0' to 15' in 13 3/8" casing with dry hole marker installed in same. Complete 8-28-62.

*V = 2139' off  
W = 134' off  
Z = 205' off - all formations protected with 450' of cement around casing*

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

Company Sunray DX Oil Company  
Address 101 University Blvd.  
Denver 6, Colorado

By F. S. Goddard  
Title District Production Coordinator

HISTORY OF WELL  
AT TIME OF COMPLETION

LEASE Diamond Ridge Unit WELL NO. 4  
SEC. 36 16S 22E COUNTY Grand  
STATE Utah FIELD Diamond Ridge

A F F NO.

ALL DEPTHS FROM TOP OF KELLY BUSHING UNLESS OTHERWISE SPECIFIED

- 8-11-62 Move in R & R well service. Load hole with mud. Pull 2 7/8" 6.5# N-80 tube.
- 8-19-62 Move in rig up. Wayte Industrial Supply Corp. to pull casing. Wait on McCullough.
- 8-20-62 Ran Baker junk catcher to 7,600'. Ran Baker Model 'K' CI Bridge Plug to 7,500'. Would not set. Pulled out & reran & set at 7,500' with McCullough Tool Company. Attempt to free pt. tool would not work.
- 8-21-62 Attempt to free pt. tool would not work. Attempt to cut off at 6,800'. Firing panel out. Shut down for repairs.
- 8-22-62 Free pt. 5 1/2" casing with McCullough Tool Co. Cut off 5 1/2" casing at 6730'. Could not pull casing. Cut off at 6720'. Pulling casing.
- 8-23-62 Pulling 5 1/2" casing complete pulling 5 1/2" casing on 8-25-62. Set 40 sacks cement plug from 3200' to 3796' in open hole & 9 5/8" casing. Recovered 203 jts.
- 8-24-62 5 1/2" casing, landing jt. and cut off. Total footage 6789.71 including thds.
- 8-25-62 Cut off 9 5/8" casing at 1092'. Pulling same.
- 8-27-62 Finish pulling 9 5/8" casing. Recovered 33 jts., 1 landing jt. and 1 cut off. Total footage including thds. 1092.76.
- 8-28-62 Set 80 sacks cement plug from 95' to 195' in 13 3/8" casing & 24' of open hole. Place 10 sacks cement plug 0-15' in 13 3/8" casing with dry hole marker installed in same. P & A complete 8-28-62.

CORRECT

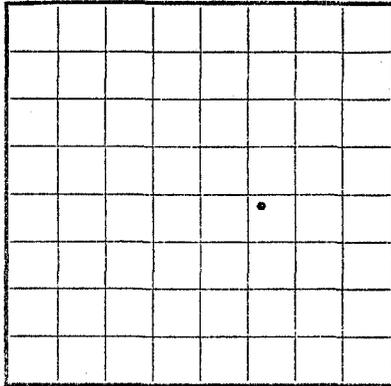
ENGINEER

APPROVED

SUPERINTENDENT

U. S. LAND OFFICE Salt Lake City

SERIAL NUMBER \_\_\_\_\_  
LEASE OR PERMIT TO PROSPECT State ML  
3905



LOCATE WELL CORRECTLY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Sunray DX Oil Company Address 101 University Blvd.  
Lessor or Tract Diamond Ridge Unit Field Diamond Ridge State Utah  
Well No. 4 Sec. 36 T. 16S R. 22E Meridian SLBM County Grand  
Location 2492 ft. N. of S. Line and 1709 ft. E. of W. Line of Sec. 36 Elevation 6861'  
(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 F. S. Goddard

Date September 4, 1962 Title District Production Coordinator

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

Commenced drilling May 31, 1960 Finished drilling July 5, 1960

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 7974 to 7997 (G) No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from 7740 to 7758 (G) 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 \_\_\_\_\_

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From--	To--	
13 3/8	48	8	Nat'l	171	Guide	None			
9 5/8	36	8	CF&L	3879	Guide	1092'			
5 1/2	17	8	CF&L	8306	Guide	6720'	7980	7995'	Prod. Test
							Notch	7745	Prod. Test

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9 5/8	3879	300	Pump & Plug	9.4	
5 1/2	8306	450 cu. ft.	Pump & Plug	8.2	

MARK

**SHOOTING RECORD**

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

**TOOLS USED**

Rotary tools were used from 0 feet to 8370 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

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

Date T.A., August 17, 1960

**DATES**

P & A, August 28, 1962, 19\_\_\_\_\_ Put to producing \_\_\_\_\_, 19\_\_\_\_\_

The production for the first 24 hours was \_\_\_\_\_ barrels of fluid of which \_\_\_\_\_% was oil; \_\_\_\_\_% emulsion; \_\_\_\_\_% water; and \_\_\_\_\_% sediment. Gravity, °Bé. \_\_\_\_\_

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

Rock pressure, lbs. per sq. in. \_\_\_\_\_

**EMPLOYEES**

\_\_\_\_\_, Driller \_\_\_\_\_, Driller  
 \_\_\_\_\_, Driller \_\_\_\_\_, Driller

**FORMATION RECORD**

FROM-	TO-	TOTAL FEET	FORMATION
			<u>LOG TOPS</u>
			Castlegate 3875' (+3076')
			Dakota Silt 7465' (- 604')
			Dakota Silt 7568' (- 707')
			Cedar Mt. 7690' (- 829')
			Brushy Basin 7757' (- 896')
			Entrada 8010' (-1149')

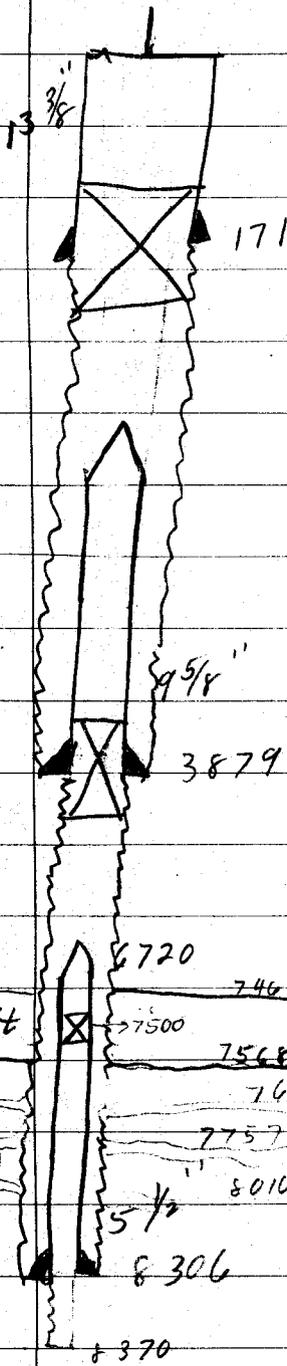
10 FEB 61

"SUNRAY"

Diamond Ridge

Sec 36, 16S - 22E

Well No (4)



$$V = \pi r^2 h$$

$$\pi = 3.14$$

$$3.14 \times (4.37)^2 \times 840$$

$$3.14 \times (2.75)^2 \times 840$$

$$4.37^2 = 19.1$$

$$2.75^2 = 7.56$$

$$19.1 \times 3.14 = 60.0$$

$$7.56 \times 3.14 = 23.7$$

$$8.75$$

$$5.30$$

$$3.45$$

DAKOTA Silt  
Cedar Mt.  
Blushy Basalt  
ENTRADA

Cemented  
with  
450 cwt

$$V = \pi r^2 h$$

$$V = 339 \text{ cwt}$$

$$2V = 134$$

$$205 \text{ cwt}$$

(!) all zones protected  
with 450 cwt of cement  
around annulus of casing

$$19.09$$

$$3.14$$

$$1.00$$

$$8.40$$

$$504.00$$

$$19.09$$

$$8.39$$

$$5.1$$

$$2.75$$

$$8.75$$

$$1465$$

$$841$$

$$120$$

$$6.84$$

$$24$$

$$36$$