

COMPLETIONS

Located in NID File \_\_\_\_\_ ✓  
 Located On S R Sheet \_\_\_\_\_  
 Location Map Pinned \_\_\_\_\_ ✓  
 Card Indexed \_\_\_\_\_ ✓  
 I W R for State or Fee Land \_\_\_\_\_

Checked by Chief \_\_\_\_\_ *R.P.S.*  
 Copy NID to Field Office \_\_\_\_\_  
 Approval Letter \_\_\_\_\_ ✓  
 Disapproval Letter \_\_\_\_\_

COMPLETION DATA:

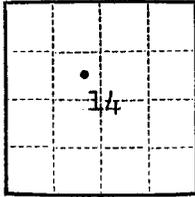
Date Well Completed 8-5-61  
 OW \_\_\_\_\_ WW \_\_\_\_\_ TA \_\_\_\_\_  
 GW ✓ \_\_\_\_\_ OS \_\_\_\_\_ PA \_\_\_\_\_

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

LOGS FILED

Driller's Log 7-15-61  
 Electric Logs (No. ) 4  
 E \_\_\_\_\_ I \_\_\_\_\_ E-I \_\_\_\_\_ GR \_\_\_\_\_ GR-N 2 ✓ Micro \_\_\_\_\_  
 Lat ✓ Mi-L \_\_\_\_\_ Sonic ✓ Others \_\_\_\_\_

Copy to HC



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Salt Lake City, Utah

Lease No. U-05127

Unit Diamond Ridge

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 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)

June 1, 1961

Well No. 6 is located 1619 ft. from N line and 2419 ft. from W line of sec. 14  
NW 14 17S 22E SLBM  
(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 flow~~ <sup>ground</sup> above sea level is 6652 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)

It is proposed to drill with rotary tools to 8000' to test Dakota and Morrison sands. Casing program will include 13-3/8" OD surface casing at 150' 8-5/8" OD intermediate through Castlegate sand at approximately 3600' and 5-1/2" OD production string through lowest indicated productive zone. Drilling to be done with mud to point of setting 8-5/8" OD casing. Air will be used through Mancos shale, Dakota and Morrison sands unless fluid is encountered which will necessitate use of inverted oil-emulsion mud.

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

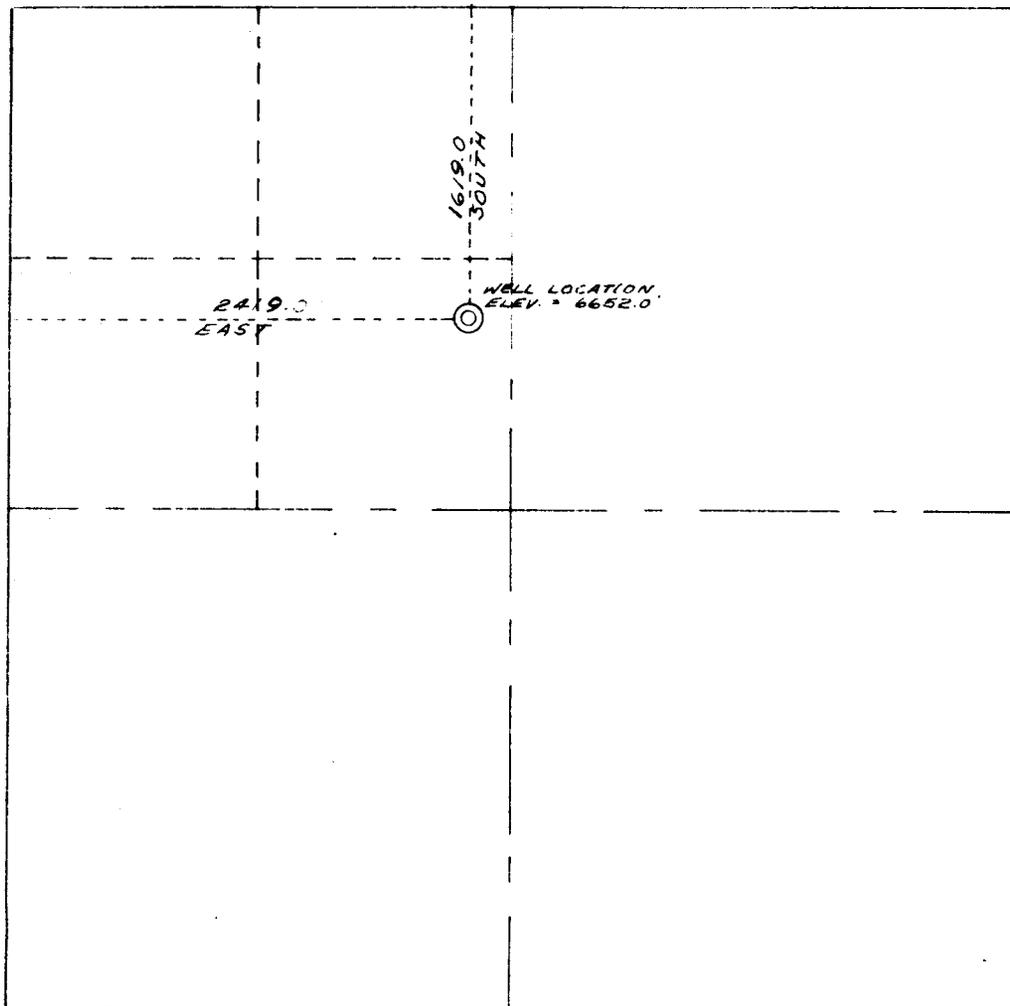
Company SUNRAY MID-CONTINENT OIL COMPANY

Address 101 University Boulevard

Denver 6, Colorado

PHONE: Dudley 8-6411

By Paul A. Carpenter  
 Paul A. Carpenter  
 Title Drilling Coordinator



N



WELL LOCATION

DIAMOND RIDGE UNIT NO 6

SUNRAY MID-CONTINENT OIL CO.

DENVER, COLORADO

SITUATED IN SE 1/4 NW 1/4 SECTION 14,

T 17 S, R 22 E. S. L. B. M.

GRAND COUNTY, UTAH

SCALE 1 INCH = 1000 FEET

REF. POINT SOUTH 140.0 = ELEV. 6682.6

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 26, 1961.

*Tom Walker*  
 TOM WALKER  
 GLENWOOD SPRINGS COLO.  
 REGISTERED LAND SURVEYOR  
 CERTIFICATE NO 1549

June 5, 1961

Sunray Mid-Continent Oil Co.  
101 University Boulevard  
Denver 6, Colorado

Attn: Paul A. Carpenter, Drilling Coordinator

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Diamond Ridge Unit #6, which is to be located 1619 feet from the north line and 2419 feet from the west line of Section 14, Township 17 South, Range 22 East, S1EM, 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 has not been 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. FREIGHT,  
EXECUTIVE SECRETARY

CBF:avg

cc: Don F. Russell, Dist. Eng.  
U. S. Geological Survey

H. L. Coonts - OGCC, MOab

Copy to HC

Budget Bureau 42-R358.2  
Approval expires 12-31-62.

R 12

Form 9-331a  
(Feb. 1951)

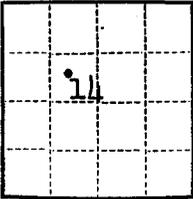
(SUBMIT IN TRIPLICATE)

Land Office Salt Lake City

Lease No. \_\_\_\_\_

Unit Diamond Ridge

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.....	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)

June 21, 19 61

Well No. 6 is located 1619 ft. from N line and 2419 ft. from W line of sec. 14

NW Sec. 14                      17S                      22E                      SLBM  
 (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~~ Ground above sea level is 6652 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)

Spud well on June 18, 1961. Drilled 12 1/4" hole to 161'. Reamed to 17 1/2" to 140'. Ran 4 joints 13 3/8" OD, 48#, H-40 Casing and set at 137' w/130 sacks regular cement w/3% Ca. Cl. Plug down 5:20 P.M. 6-19-61. WOC 24 hours. Installed BOP. Tested casing and BOP to 1000# for 30 minutes w/clear water before drilling plug.

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 101 University Blvd.

Cherry Creek Center

Denver 6, Colorado

PHONE: DUDley 8-6411

By [Signature]

F. S. Goddard

Title District Production Coordinator

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah  
LEASE NUMBER \_\_\_\_\_  
UNIT Diamond Ridge

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County Grand Field Diamond Ridge

The following is a correct report of operations and production (including drilling and producing wells) for the month of June, 1961,

Agent's address 101 University Blvd. Company SUNRAY MTD-CONTINENT OIL COMPANY  
Cherry Creek Center, Denver 6, Colorado Signed [Signature]  
Phone \_\_\_\_\_ Agent's title F. S. Goddard  
District Production Coordinator

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NW SW Sec. 8	17S	23E	1	-	-	-	-	-	-	Shut in - No Market
NE NE Sec. 23	17S	22E	2	-	-	-	-	-	-	Shut in - No Market
NE SE Sec. 25	17S	22E	3	-	-	-	-	-	-	Temporarily abandoned 5-24-60
NW SE Sec. 36	16S	22E	4	-	-	-	-	-	-	Shut in for build up
SE NW Sec. 21	17S	22E	5	-	-	-	-	-	-	Commenced plugging operations on 6-16-61 and pulled 958' of 8 5/8" OD 24# casing. Completed plugging of well on 6-18-61.
SE NW Sec. 14	17S	22E	6	-	-	-	-	-	-	Present depth 3440' Logging.
Well #6 spudded 6-18-61. Set 13 3/8" OD 48# casing @ 137' with 130 sacks of regular cement and 3% Ca.Cl. woc 24 hours. Test casing and BOP to 1200# for 30 minutes. Held OK. Drilling ahead.										

NOTE.—There were NO runs or sales of oil; NO M cu. ft. of gas sold; NO runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

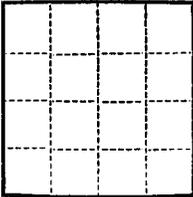
any

Copy to HC

R-28

Form 9-331a  
(Feb. 1951)

Budget Bureau 42-R358.2  
Approval expires 12-31-52.



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office **Salt Lake**  
Lease No. **U-05127**  
Unit **Diamond Ridge**

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)

July 21, 19 61

Well No. **6** is located **1619** ft. from **[N]** line and **2219** ft. from **[E]** line of sec. **14**  
**[S]** **[W]**

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

**Diamond Ridge** (County of Subdivision) **Utah** (State or Territory)

The elevation of the derrick floor above sea level is **6655** 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)

It is proposed to open 5 1/2" OD casing at 7398' to 7401' with Dowell AbrasiJet. After testing, the vertical fractures will be fracture treated with 10,000 gallons diesel oil and 1500# aluminum pellets, using four Dowell Allison pumps.

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 **101 University Blvd.**

**Denver 6, Colorado**

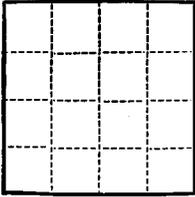
**Division 8-6411**

By

**F. S. Goddard**

Title **District Production Coordinator**

JK



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Salt Lake  
Lease No. Diamond Ridge  
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.....
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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)

July 21, 1961

Well No. 6 is located 1419 ft. from X  $\left\{ \begin{matrix} N \\ S \end{matrix} \right\}$  line and 2419 ft. from X  $\left\{ \begin{matrix} E \\ W \end{matrix} \right\}$  line of sec. 14  
NW 14 17E 22E S12M  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Diamond Ridge Grand Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6652 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.)  
 Drilled 11" hole to 3440'. ~~Run 5 1/2" casing to 3432'~~ Laterolog, and Sonic logs. Set 8 5/8" OD, 24# and 32#, J-55 casing at 3432' w/250 sacks regular cement. Tested 8 5/8" OD and BOP to 1000' with water for 30 minutes. Held O.K. Drilled plug to 3432'. 8 5/8" OD parted at coupling at 137'. Repaired with Beach Rose casing bowl. Tested casing to 1000' with water for 30 minutes. Held O.K. Drilled 7 7/8" hole with air to 3961'. 8 5/8" OD casing collapsed at 2312'. Cut off 8 5/8" OD at 2340'. Replaced collapsed joint and run Beach Rose casing bowl for repair. Drilled with air to 7700'. Gas sand at 7394' to 7406' tested 750 mfgpd rate from open hole. Set 5 1/2" OD, 15.5#, J-55 & 17#, H-80 casing at 7699' with 150 sacks latex cement. Lane-Wells cement log shows top of cement behind 5 1/2" OD at 6764'.

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 101 University Blvd.  
Denver 6, Colorado  
DUNLEY 8-6411  
 By F. S. Cottard  
 Title District Production Coordinator

*Amey*

*RJL*

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah  
LEASE NUMBER \_\_\_\_\_  
UNIT Diamond Ridge Unit

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County Grand Field Diamond Ridge

The following is a correct report of operations and production (including drilling and producing wells) for the month of July, 1961,

Agent's address 101 University Blvd. Company SUNRAY MID-CONTINENT OIL CO.

Cherry Creek Center, Denver, Colo. Signed *D. L. Jackson*

Phone Dudley 8-6411 Agent's title D. L. Jackson Senior Clerk

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (in thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (if none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NW SW Sec. 8	17S	23E	1	-	-	-	-	-	-	Shut in - No Market
NE NE Sec. 23	17S	22E	2	-	-	-	-	-	-	Shut in - No Market
NE SE Sec. 25	17S	22E	3	-	-	-	-	-	-	Temporarily abandoned 5-24-60
NW SE Sec. 36	16S	22E	4	-	-	-	-	-	-	Shut in for buildup
SE NW Sec. 14	17S	22E	6	-	-	-	-	-	-	TD - 7700'
Set 8 5/8" OD casing at 3432' with 250 sacks cement. Casing split at 2313'. Cut and pulled 8 5/8" OD from 2340'. Rerun 8 5/8" casing with casing repair bowl. Drilled to 7700'. Set 5 1/2" OD casing at 7699' with 150 sacks cement. Cut 2 abrasijet notches at 7399' to 7402'. Used 690 bbls. frac and load oil.										

NOTE.—There were NO runs or sales of oil; NO M cu. ft. of gas sold; NO runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

State

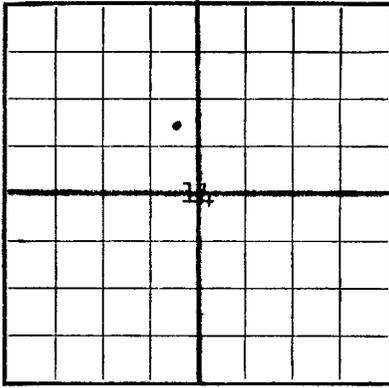
U-05127 Ref #4

Form 9-330

Bureau No. 42-R255.4  
Approval expires 12-31-60.

U. S. LAND OFFICE Utah  
SERIAL NUMBER U-05127

LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company SUNRAY MID-CONTINENT OIL COMPANY Address 101 University Blvd., Denver 6, Colo.  
Lessor or Tract Diamond Ridge Unit Field Diamond Ridge State Utah  
Well No. 6 Sec. 14 T. 17S R. 22E Meridian SLBM County Grand  
Location 1619 ft. {N. } of N. Line and 2419 ft. {E. } of W. Line of NW 1/4 Elevation 6664'  
(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 12, 1961

Title District Production Coordinator

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

Commenced drilling June 18, 1961 Finished drilling July 28, 1961

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 7393' to 7408' (G) 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 \_\_\_\_\_

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
10 3/8	48#	8R	H-40	137'	Guide	-	-	-	Surface
<p><b>HISTORICAL LOG OF OIL OR GAS WELL</b></p>									

MUDDING AND CEMENTING RECORD

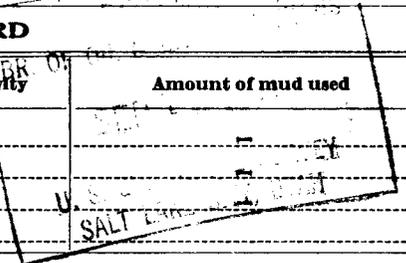
Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/8	137'	130 + 2% Ca. Cl.	Pump & Plug	-	-
8 5/8	3432'	250 + 2% Ca. Cl.	Pump & Plug	-	-
5 1/2	7699'	150	Pump & Plug	-	-

PLUGS AND ADAPTERS

Heaving plug—Material NONE Length \_\_\_\_\_ Depth set \_\_\_\_\_  
Adapters—Material \_\_\_\_\_ Size \_\_\_\_\_

SHOOTING RECORD

FOLD MARK





**FORMATION RECORD—Continued**

FROM—	TO—	TOTAL FEET	FORMATION
<p>Frac notches were cut from 7399' to 7402'. Fractured Brushy Basin formation, 7399' - 7402" with 400# 20-40 mesh sand in 1000 gal. diesel oil and 1500# aluminum pellets in 10,000 gal. diesel oil. Total load &amp; frac oil used: 690 barrels. Well tested 970 MCFGPD after treatment. (See Well History for details)</p>			
<p align="center">COMPLETED AS A SHUT-IN GAS WELL.</p>			
<p align="center">FOR COMPLETE DETAILS OF WELL OPERATIONS, SEE WELL HISTORY ATTACHED.</p>			
<p align="right">                     2221' - 2221'                      2221' - 2221'                      2221' - 2221'                      2221' - 2221'                      2221' - 2221'                 </p>			

FROM—	TO—	TOTAL FEET	FORMATION
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**FORMATION RECORD**

0. 2. 1951	0. 2. 1951	0. 2. 1951	0. 2. 1951
0. 2. 1951	0. 2. 1951	0. 2. 1951	0. 2. 1951

**EMPLOYEES (GIVE COMPLETE NAMES)**

Rock pressure, lbs. per sq. in.	Flow rate, cu. ft. per 24 hours	Gas gravity	Barrels of fluid produced per 24 hours

**DATES**

Cable tools were used from			
Rotary tools were used from			

**TOOLS USED**

Size	Depth used	Explosive used	Quantity	Date	Depth shot	Depth cleared out

**SHOOTING RECORD**

Adapters—Material	Size	
Heaving plug—Material	Length	Depth set

**PLUGS AND ADAPTERS**


FOLD MARK

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 RECORDS IN CHRONOLOGICAL ORDER, WITH DATE, CONDITION AND DEPTH OF HOLE. SHOW CHANGES IN TYPE OF MUD WITH REASONS. LOST CIRCULATION, BLEEDOUTS, SURVEYS FOR DEVIATION FROM VERTICAL, DRILL STEM TESTS, CORING DEPTHS, ELECTRICAL SURVEYS, DESCRIPTION OF POSSIBLE PRODUCING ZONES CASING OFF, DESCRIPTION OF CASING JOBS SHOWING TYPES OF SHOES AND FLOAT EQUIPMENT, DETAILS OF CASING PULLED PRIOR TO COMPLETION. SHEETTRACKED FISH, SHOT AND ACIDIZING RECORDS, PLUGS, ETC.

USE TYPEWRITER.

**HISTORY OF WELL  
AT TIME OF COMPLETION**

LEASE DIAMOND RIDGE UNIT WELL NO. 6  
SEC 14 T. 17S R. 22E COUNTY Grand  
STATE Utah FIELD Diamond Ridge Unit  
A.P.E. NO. 10-611-71

PAGE 1

ALL DEPTHS FROM TOP OF KELLY BURNING UNLESS OTHERWISE SPECIFIED.

DIAMOND RIDGE UNIT #6

SDX interest 100%. Located 1619' FNL and 2419' FWL of Section 14-17S-22E, SLBM, Grand County, Utah. Surveyor's ground elevation 6652'. Projected depth 8000', Dakota - Morrison objective horizon.

- 6-7 Building road and location.
- 6-8 Continue building road and location.
- 6-9- Continue building road and location.
- 6-10 MIRT. Finished road and location. Dug cellar and mouse and rat holes. Moving in rig.
- 6-11 6-12
- 6-13 Moving in rig.
- 6-14 6-15 RURT.
- 6-16 6-17 RURT.
- 6-17 PD 161'. Preparing to open hole to 17 $\frac{1}{2}$ ". Progress 161'. D Day 1. Spudded 10 P.M.,
- 18-19 6-18-61. Drilled 12 $\frac{1}{2}$ " hole to 161'. Will ream to 17 $\frac{1}{2}$ ". Gravel at 91' to 106'. Bit #1, Hughes, OSCIG, Retip, 0'.  $\frac{1}{2}$  deg. at 90'. Used 41 sacks of Gel and 150# Lime.
- 6-20 PD 161'. WOC. Progress 0! Drilling Day 2. Reamed to 17 $\frac{1}{2}$ " hole to 140'. Ran 4 jts. 13 3/8" OD, 48#, H-40 casing and set at 137' with guide shoe and 2 centralizers.. Cemented in 130 sacks regular cement w/3% Ca.Cl. Plug down 5:20 P.M. 6-19-61. Good cement returns to cellar. Mixing mud and connecting on 13 3/8" OD. 0 deg. @151'. Used 31 sacks Gel, 100# Lime.
- 6-21 PD 503'. Drilling. D Day 3. Progress 342'. WOC 22 3/4 hours. Drilled mouse hole and nipples up. Test casing and BOP to 1200# for 30 minutes. Drilling formation at 4:00 P.M. 6-20-61. Bit #2, Hughes, 11" OS3J in at 161'.  $\frac{1}{2}$  deg. at 320', 3/4 deg. at 400'. 8.7# - 34 sec. - 6.5 c.c. - 11% oil. Used 254 sacks salt, 6 sacks driscose S, 3 drums Atlasol 'S', and 120 bbls. oil.
- 6-22 PD 1027'. Drilling. D Day 4. Progress 524'. Bit #2 made 372', Bit #3 made 463' in 7 hours. Twisted off at 533'. Left 4-8" drill collars in hole. Recovered. Stuck 1 hour at 752'. Worked loose. Hole tight after fast drilling. Bit #3, Hughes, 11" OSC3J, in at 533', Bit #4, Hughes, 11" OSC3A-J in at 996'.  $\frac{1}{2}$  deg. at 550',  $\frac{1}{2}$  deg. at 748'. 9.7# - 39 sec. - 6.5 c.c. - 19% oil. Used 55 gal. Atlasol 'S', 1,000# Starch, 10 bbls. oil, 250# Preservative, 1500# Salt, 50# Driscose 'S', and 90,000PPM Salt.

THIS FORM TO BE SUBMITTED ALONG WITH PLUM 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. 6  
SEC. 14 T. 17S R. 22E COUNTY Grand  
STATE Utah FIELD Diamond Ridge Unit  
A.P.E. NO. 10-611-71

PAGE 2

ALL DEPTHS FROM TOP OF KELLY BUSHING UNLESS OTHERWISE SPECIFIED.

- 6-23- PD 1367'. Drilling. Progress 340'. D Day 5. Bit #4 made 221' in 9 hours. Bit #5 made 180' in 4 3/4 hours. Twisted off at top of 5th drill collar from bottom while drilling at 1267'. Running 80 to 120 RPM and 25,000# to 32,000# weight. Bit #5, Hughes, 11" OSC3A-J, in at 1187'. 3/4 deg. @ 1267'. 10.2#-35 sec. - 4.8 c.c. - 17% oil. Used 1150# Mylogel, 350# Spersene, 50 bbls. oil, 70 sacks salt, 100# Preservative, 30 gal. Atlasol 'S'.
- 6-24- PD 1547'. Drilling. Progress 180'. D Day 6. Twisted off at bumper sub while drilling at 1385'. Made two trips with overshot and recovered fish. Made trip at 1427' for plugged bit. Bit #6, Hughes, 11" OSC1G-J, in at 1367'. 1 deg. @ 1525'. 10.2# - 36 sec. - 4.5 c.c. - 17% oil. Used 30 sacks salt, 100# Mica, 50 gal. Atlasol 'S', 50 bbls. crude oil. 8.0 PH.
- 6-25- PD 1747'. Drilling. Progress 200'. D Day 7. Bit #6 made 230' in 9 hours. Bit #7 Hughes, 11" OSC1G, in at 1597'. Used 750# starch, 30 gal. Atlasol 'S', 100# Spersene, 100# Fine Mica, 25 gal DME, 2 gal. D.D.
- 6-26- PD 2128'. Drilling. Progress 381'. D Day 8. Bit #7 made 261' in 12 hours. Bit #8 made 212' in 9 1/2 hours. Bit #8, Hughes, 11" OSC1G, in at 1858'. Bit #9, Hughes, 11" OSC1G-J, in at 2070'. 1/4 deg. @ 1965'. 10.1#-40 sec. - 4.0 c.c. - 15% oil. 55 sacks salt, 300# Spersene, 20 sacks mylogel, 15 DME, 200# Fine Mica, 60,000 PPM chlorides.
- 6-27- PD 2590'. Drilling. Progress 462'. D Day 9. Bit #9 made 520' in 23 hours. 35 to 40,000#, 80 to 100 RPM, 750#. 10 stands tight on trip at 2590'. Bit #10, Hughes, 11" OSC1G, in at 2590'. 1/4 deg. @ 2450', 1/2 deg. @ 2210'. 9.8# - 40 sec. - 4.0 c.c. - 21% oil. 45 sacks salt, 350# Spersene, 20 sacks mylogel, 20 bbls. oil, 62,000 PPM chlorides.
- 6-28- PD 3047'. Tripping. Progress 457'. D Day 10. Bit #10 made 207' in 10 1/2 hours. Bit #11 made 250' in 15 hours. Hole tight. Have rotated out one joint. Will go back down. Bit #11, Hughes, 11" OSC1G-J, in at 2797'. 9.8# - 39 sec. - 4.0 c.c. - 18% oil. 80 sacks salt, 600# Spersene, 1200# starch, 8 sacks Mica, 50# Preservative, 20 bbls. oil, 61,000 PPM chlorides.
- 6-29- PD 3283'. Making trip. Progress 236'. D Day 11, Bit #12 made 236' in 11 1/2 hours. Short trips @ 3198' and 3227'. 80 RPM, 25 to 45,000# on bit. 11 1/4 hours drilling. 6 hours trip, 5 1/2 hours working out of tight hole, 1/2 hour service rig. 3/4 hour repairs. Bit #12, Hughes, 11" OSC1G-J, in at 3,047'. Bit #13 Hughes, 11" OSC1G, in at 3,283'. 1/4 deg. @ 3005'. 9.8# - 37 sec. - 4.5 c.c. - 15% oil. 45 sacks salt, 300# Spersene, 25 sacks mylogel, 300# Mica, 150# Preservative, 62,000 PPM chlorides. PH 7.5

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SUPERINTENDENT

THIS FORM TO BE SUBMITTED ALONG WITH PLUG LOG. NOT LATER THAN 15 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, SIBTRACKED FISH, SHOT AND ACIDIZING RECORDS, PLUGS, ETC.

USE TYPEWRITER.

HISTORY OF WELL,  
AT TIME OF COMPLETION

LEASE DIAMOND RIDGE UNIT WELL NO. 6  
SEC. 14 T. 17S R. 22E COUNTY Grand  
STATE Utah FIELD Diamond Ridge Unit  
A.P.E. NO. 10-611-71

PAGE 3

ALL DEPTHS FROM TOP OF HULLY RUNNING UNLESS OTHERWISE SPECIFIED.

- 6-30 PD 3379'. Running logs. Progress 96'. D Day 12. Sample top of Castlegate 3290', Mancos 3355'. Having trouble with logging instrument. Bit #13 made 57' in 6 hours (dull). Bit #14 made 39' in 7 hours (dull). 13 hours drilling & 3/4 hours trips. 1/2 hour service rig. 3/4 hour repairs. 3/4 hour circulate. 1 1/2 hours log. Bit #14, Hughes, 11" OSC, in at 3340'. 1/2 deg. @ 3205'. 10.0# - 39 sec. - 4.2 c.c. - 13% oil. Used 38 sacks salt, 300# Spersene, 30 sacks Mylogel, 6 sacks Mica.
- 7-1 PD 3440'. WOC. Progress 61'. D Day 13. Ran Schlumberger G-R, Lateralog and Sonic logs. Log top of Castlegate 3276', Mancos silt 3333', Mancos shale 3397'. Laid down 8" drill collars. Set 8 5/8" OD, 24# and 32# J-55 casing at 3432' w/250 sacks regular cement w/2% Ca.Cl. in last 100 sacks. Plug down at 6:00 A.M. 7-1-61. Connecting up 8 5/8" OD for air drilling. Bit #15, Hughes, 11" OWV, in at 3379'. 1/2 deg. @ 3400'. 9.8# - 40 sec. - 4.2 c.c. - 13% oil. Used 100# Spersene, 3 sacks Mica, 10 sacks Mylogel.
- 7-2 PD 3440'. Connecting for air drilling. Progress 0'. D Day 14. Installed double ram BOP and air drilling head.
- 7-3 PD 3400'. Repairing parted casing. Progress 0'. D Day 15. Finished connecting for air drilling. Picked up 6" drill collars. Ran 7 7/8" bit. Pressured 8 5/8" OD casing and BOP to 1000# for 30 minutes. Held O.K. Drilled cement plug from 3392' to 3432'. Pulled out. Started in hole w/Hughes RG7J bit. Hit parted casing at 137'. Parted at coupling. (New National casing). Pulled 4 jts. 8 5/8" OD. Ran casing cutter to 149' and cut off 12' of 8 5/8" OD. Retrieved cut off piece with spear. Ran mill and dressed off top of 8 5/8" OD stub. Running Baash-Ross casing bowl with double slips and lead seals.
- 7-4 PD 3757'. Air drilling. Progress 317'. D Day 16. Bit #16 used to drill cement from 3392' to 3432'. Finished running Baash-Ross casing bowl. Caught top of 8 5/8" OD casing and set on slips at 8000#. Connected BOP and air drilling head. Tested casing and BOP to 1000# for 30 minutes. Held O.K. Started unloading hole w/air @ 4:00 P.M. Drilling and drying hole 10:00 P.M. to midnight. Hole dusting at midnight. Bit #16, Hughes, 7 7/8" OWC, Bit #17, Hughes (repaired) 7 7/8" RG7J, in at 3400'. 1/2 deg. @ 3506', 1 1/4 deg. @ 3628', 1 1/2 deg. @ 3689'.
- 7-5 PD 3961'. Repairing 8 5/8" OD casing. Progress 204'. D Day 17. Air pressure suddenly increased from 90# to 300# and lost air returns, while drilling at 3961'. Worked pipe tight for 53 jts. pulled free with bit at 2312'. Took 250,000# pull to get bit by 2312'. Stripped off BOP. Welded on to top of 8 5/8" OD. Running Dialog free-point indicator to find stuck point of 8 5/8" OD. 1 1/2 deg. @ 3775', 2 1/4 deg. @ 3875', 2 1/2 deg. @ 3935'.

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THIS FORM TO BE SUBMITTED ALONG WITH FC. IT IS 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 CASINGS PULLED PRIOR TO COMPLETION, SIDETRACKED FISH, SHOT AND ACIDIZING RECORDS, PLUGS, ETC.

USE TYPEWRITER.

HISTORY OF WELL  
AT TIME OF COMPLETION

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LEASE DIAMOND RIDGE UNIT WELL NO. 6  
SEC. 14 T. 17S R. 22E COUNTY Grand  
STATE Utah FIELD Diamond Ridge Unit  
A.P.E. NO. 10-611-71

ALL DEPTHS FROM TOP OF KELLY EXCEPT UNLESS OTHERWISE SPECIFIED.

- 7-6 PD 3961'. Repairing 8 5/8" OD casing. Progress 0'. D Day 18. Found 8 5/8" OD free to 2345' with Dialog free-point indicator. Collar locator shows collars at 2293', 2325', 2358' and 2390' and shows apparent split in joint at 2313' to 2316'. Ran DP with 7 - 11/16" OD bottle neck bit sub on bottom and one joint drill pipe between bit sub and bumper sub and jars. Tight at 2285' and 2316'. Ran McCullough inside casing cutter 3 times and cut off 8 5/8" OD at 2340'. Could not set slips on cutter first two runs. Pulling 8 5/8" OD, 4 jts. out. Casing free.
- 7-7 PD 3961'. Repairing 8 5/8" OD casing. Progress 0'. D Day 19. Finished pulling 8 5/8" OD casing (71 jts. and 2 cut off pieces). 71st full joint split from 1' below top collar through threads at bottom with exception of 3' at middle of joint, which was partially collapsed. Ran 11" RB to top of 8 5/8" OD 2340' and conditioned hole. Was tight from 2330' to 2340'. Pulled RB. Ran mill with 9 5/8" OD by 6 1/2" skirt and smoothed top of 8 5/8" OD stub. Ran Baash-Ross casing bowl to top of 8 5/8" OD. Could not get over top of 8 5/8" OD stub. Pulling casing and casing bowl. 35 jts. out.
- 7-8 PD 3961'. Repairing casing. Progress 0'. D Day 20. Finished pulling 8 5/8" casing with casing repair bowl. Bowl showed marks 2" inside. Ran 9 5/8" OD x 9" ID mill and milled over stub 2". Pulled out. Ran 10 3/4" OD x 10" ID shoe with 4 tapered Cutrite milling lugs (9 3/4" to 8 3/4"). Milled over 8" and washed free 6'. Pulled. Built up bottom tapered lugs to 8 5/8" ID. Installed 4 - 7 1/2" lugs (milling) 2" above 8 5/8" milling lugs milled 8" in 1 hour. Pulled out. Removed 10 3/4" shoe. Cut off 7 1/2" lugs. Ran 9 5/8" x 9" milling shoe w/dressing lugs 5 1/2' from bottom. Went over 8 5/8" stub free. Dressed top of casing. Conditioned hole. Running 8 5/8" OD casing with Baash-Ross casing repair bowl.
- 7-9 PD 3961'. Drying hole. Progress 0'. D Day 21. Finished running 8 5/8" OD casing with Baash-Ross casing repair bowl. Caught top of 8 5/8" OD casing stub at 2340'. Set on slips at 85,000#. Connected up. Ran 7 7/8" RB. Found slight burr at 2340'. Smoothed off w/bit. Washed out shale bridge at 2560'. Drying hole at 3900'. Casing repair holding O.K.
- 7-10 PD 4429'. Air drilling. Progress 468'. D Day 22. Drilled up casing cutter springs and other junk on bottom. Started dusting at 5:00 P.M. 7-9-61. Bit #18, Hughes, 7 7/8" W7 Air, in at 3961'. 2 1/4 deg. @ 4030', 2 deg. @ 4090', 2 deg. @ 4318', 2 1/2 deg. @ 4410'.
- 7-11 PD 4904'. Air drilling. Progress 475'. D Day 23. 2 1/2 deg. @ 4460', 3 deg. @ 4585', 3 1/2 deg. @ 4645', 4 deg. @ 4718', 4 deg. @ 4780', 4 deg. @ 4842'.
- 7-12 PD 5211'. Making trip to run hammer drill. Progress 307'. D Day 24. Running 4000# to 6000# on bit. Bit #18 made 975' in 38 hours. Bit #19, Hughes, (repaired), 7 7/8" RG7J, in at 4936'. 4 1/4 deg. @ 4920', 5 1/2 deg. @ 5020', 6 3/4 deg. @ 5120', 7 3/4 deg. @ 5181'.

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SUPERINTENDENT

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USE TYPEWRITER.

HISTORY OF WELL  
AT TIME OF COMPLETION

PAGE 5

LEASE DIAMOND RIDGE UNIT WELL NO. 6  
SEC. 14 T. 17S R. 22E COUNTY Grand  
STATE Utah FIELD Diamond Ridge Unit  
A.F.E. NO. \_\_\_\_\_

ALL DEPTHS FROM TOP OF KELLY BUSHING UNLESS OTHERWISE SPECIFIED.

- 7-13 PD 5668'. Air drilling. Progress 457'. D Day 25. Ran Junction Bit & Tool Co. 'Tork-hammer' @ 5211'. Running 5000# to 8000# on bit. 8 deg. @ 5211', 8 deg. @ 5266', 8 deg. @ 5266', 7 $\frac{1}{4}$  deg. @ 5320', 7 $\frac{1}{2}$  deg. @ 5385', 7 $\frac{1}{2}$  deg. @ 5440', 7 deg. @ 5586', 8 deg. @ 5647'.
- 7-14 PD 6120'. Air drilling. Progress 452'. D Day 26. Running to 3000# to 4000# on bit this morning. Have run up to 7000# in last 24 hours. 7  $\frac{3}{4}$  deg. @ 5700', 8 deg. @ 5790', 8 deg. @ 5845', 8 $\frac{1}{4}$  deg. @ 5905', 8 deg. @ 5970', 8 deg. @ 6048', 9 deg. @ 6111'.
- 7-15 PD 6462'. Air drilling. Progress 342'. D Day 27. Bit #19 made 1526' in 60 hours. Bit #20, Hughes, 7  $\frac{7}{8}$  RG7J, in at 6462'. 9 deg. @ 6160', 9 deg. @ 6225', 9 deg. @ 6285', 8  $\frac{3}{4}$  deg. @ 6345', 8 $\frac{1}{4}$  deg. @ 6453'.
- 7-16 PD 6813'. Air drilling. Progress 351'. D Day 28. Making trip to retrieve Eastman Survey instrument. Steel line broke. 7  $\frac{3}{4}$  deg. @ 6620', 8 deg. @ 6680', 7 $\frac{1}{2}$  deg. @ 6740'.
- 7-17 PD 7246'. Air drilling. Progress 433'. D Day 29. No remarks. 7 $\frac{1}{4}$  deg. at 6940'. 7 deg. @ 7050', 7 $\frac{1}{2}$  deg. @ 7140'.
- 7-18 PD 7535'. Drilling. Progress 0'. D Day 30. Top of Salt Wash Sand at 7391'. Drilling at 6 minutes per foot before topping sand. Decreased to 3 minutes per foot 7391' to 7394'. Drilled to 7415'. Tested 1 hour from 9:45 P.M. to 10:45 P.M. @ 1230 MCF/GPD rate. Drilled ahead to 7427'. Tested 1 hour from 12 midnight to 1:00 A.M. at 1055 MCF gas per day rate. Drilling ahead. 7  $\frac{3}{4}$ " deg. @ 7235', 8 $\frac{1}{4}$  deg. @ 7297', 8 $\frac{1}{2}$  deg. @ 7358'.
- 7-19 PD 7700'. Preparing to run 5 $\frac{1}{2}$ " OD casing. Progress 165'. D Day 31. Tested 8:20 A.M. to 1:00 P.M. with depth 7535'. Flowed from 9 A.M. to 12 noon at 855 MCF/GPD with 44# on 3/4" orifice, and from 12 noon to 1:00 P.M. at 825 MCF/GPD with 42# on 3/4" orifice. Drilled ahead to 7700', TD. Bit #20 made 1238' in 65 $\frac{1}{2}$  hours. Mud in pits is 8.3# - 65 sec. - 1.9 c.c.
- 7-20 PD 7700'. Running 5 $\frac{1}{2}$ " OD casing. Progress 0'. D Day 32. Test 4 $\frac{1}{2}$  hours on a 3/4" orifice at 37#, 7531 MCF/GPD. Laid down D.P. and tallied 7692.56'. Connected up to run 5 $\frac{1}{2}$ " OD casing. Running casing. 133 jts. in. Casing arrived on location at 7:00 P.M.
- 7-21 PD 7700'. Connecting on 5 $\frac{1}{2}$ " OD. Progress 0'. D Day 33. Set 5 $\frac{1}{2}$ " OD at 7699'. with 150 sacks Latex cement. Pumped 200 barrels mud ahead of cement. Pumped plug with water plug down 12 noon 7-20-61. Ran Gamma Ray - Neutron and Cemoton logs from 7664' to 3350'. Brushy Basin on GR-N at 7394' to 7407', with shale break at 7399' to 7401'. Cemoton shows top of cement at 6764'. Connecting on 5 $\frac{1}{2}$ " OD.
- 7-22 PD 7700'. - D Day 33. Completion Day 1. Finished connecting on 5 $\frac{1}{2}$ " OD. Laid down drill collars. Ran 2" eue tubing with Dowell Abrasijet tool to 7654'. Displaced water from 5 $\frac{1}{2}$ " OD with diesel oil. Preparing to cut frac notches.

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SUPERINTENDENT

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USE TYPEWRITER.

HISTORY OF WELL  
AT TIME OF COMPLETION

PAGE 6

LEASE DIAMOND RIDGE UNIT WELL NO. 6  
SEC. 14 T. 17S R. 22E COUNTY Grand  
STATE Utah FIELD Diamond Ridge Unit  
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ALL DEPTHS FROM TOP OF KELLY BUSHING UNLESS OTHERWISE SPECIFIED.

- 7-23 PD 7700'. D Day 33. C Day 2. Cut 2 Dowell Abrasijet notches at 7399' to 7402'. Pumped in to formation at 2200# at 1½ BPM to 400# at 6 BPM Pressure dropped to 0 in 3 minutes, after pumps stopped. Job complete at 1:00 P.M. Unloaded diesel with compressors to 4500'. Well started flowing. Cleaned up at 12:30 A.M. Flowed to pit on ½" orifice at 137#, 950 MCFGPD. Test continuing.
- 7-24 PD 7700'. Flowing D Day 33. C Day 3. Flowed well 2 hours on ½" choke, standing pressure 127#, at 889 MCFPD. SI 30 minutes to kill well. Pressure built up to 450#. Loaded hole and killed well with diesel. Ran 2" eue tubing (233 jts.) to 7317.91'. Stripped blowout preventers. Installed xmas tree. Rigged up Dowell. Broke down with 50 bbls. treated diesel, plus 10 gal. Freflo, Adomite and W-23, at 3600# at 31 BPM, followed w/24 bbls. (1000 gal.) treated diesel w/¼" 20-40 mesh sand per gal., max. pressure 2800# at 8 BPM, followed w/50 bbls. treated fluid for spacer, at 2800# at 14 BPM. Followed w/24 BPM. Followed w/48 bbls. (2000 gal.) treated diesel w/.10# aluminum pellets per gal. max. pressure 4000# at 22 BPM. Followed w/(300 gal.) 72 bbls. treated diesel w/.15# aluminum pellets per gal., max. pressure 4000# at 36 BPM. Followed w/96 bbls. (4000 gal.) treated diesel w/.20# aluminum pellets per gal. max. pressure 4000# at 32 BPM. Flushed w/165 bbls. diesel, averaging 4000# at 14.6 BPM. Job complete 6:35 P.M. 7-23-61. Average injection rate was 20 BPM. Immediate shut in pressure was 2900#, 5 minutes SIP 2400#, 900# in 3 hours. Flowed back to tank and flowing w/compressors and boosters. Flowed 100 bbls. load oil and lack 590 bbls. to recover. Total load and frac oil, 690 bbls.
- 7-25 PD 7700'. Completing. D Day 33. C Day 4. Continued unloading with compressor and booster, started flowing without air injection at 5:00 A.M. Flowing estimated 875 MCFGPD with very slight spray diesel on ½" choke with TP 125# and CP 300#. Have recovered estimated 230 bbls. diesel. Lack 460 bbls. diesel load.
- 7-26 PD 7700'. Flowing. D Day 33. C Day 5. Flowed 21 hours on ½" choke @ 876 MCFGPD, tubing pressure 125#, casing pressure 300#. Shut in 1 hour, SITP - 525#, SICP - 625#. Flowed 2 hours, TP - 130#, CP - 300#, shut in 2 hours, SITP - 800#, SICP - 900#. Now flowing 2 hours and shut in 2 hours. Recovered 30 bbl. diesel. Lack 430 bbl. diesel. Released rig, 12:01 A.M. 7-26-61.
- 7-27 PD 7700'. SI - Moving out rotary tools. D Day 33. C Day 6. Flowed 1½ hours, no gauge, SITP-1100#, SICP - 1200#. Lack 430 bbls. diesel. SI.
- 7-28 SITP - 1500#, SICP - 1510#. Flowed 2½ hours on ½" choke. (No Gauge) TP - 275#, CP - 375#. Well SI. Moving out rig.
- 7-29 PD 7700'. Unloading frac oil. D Day 33. C Day 10. Moving out rig. Alternately  
30 flowing and shutting in to unload frac oil.  
31

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USE TYPEWRITER.

HISTORY OF WELL  
AT TIME OF COMPLETION

PAGE 7

LEASE DIAMOND RIDGE UNIT WELL NO. 6  
SEC. 14 T. 17S R. 22E COUNTY Grand  
STATE Utah FIELD Diamond Ridge Unit  
A.F.E. NO. \_\_\_\_\_

ALL DEPTHS FROM TOP OF KELLY BUSHING UNLESS OTHERWISE SPECIFIED.

- 8-1 PD 7700'. Completing. D Day 33. C Day 11. Flowed 11 hours 7-30-61 after 13 hours. Shut in. SITP 1500#, SICP 1550# at start. After 11 hours on  $\frac{1}{2}$ " choke, TP 170#, CP 350#, flowing 1160 MCFGPD with slight spray diesel oil. Shut in overnight. SITP 1510#, SICP 1535#. Flowed 7 $\frac{1}{4}$  hours on  $\frac{1}{2}$ " choke. TP 145#, CP 300# at end. 1000 MCFGPD. Shut in overnight.
- 8-2 PD 7700'. Completing. D Day 33. C Day 12. Shut in 19 hours overnight. SITP 1480#, SICP 1510#. Flowed 8 $\frac{1}{4}$  hours on  $\frac{1}{2}$ " choke at end TP 130#, CP 265#, flowing 910 MCFGPD with slight spray diesel oil.
- 8-3 PD 7700'. Completing. D Day 33. C Day 13. Flowed on  $\frac{1}{2}$ " choke at 950 MCFGPD with TP 150#.
- 8-4 PD 7700'. Testing and cleaning. 18 hours. SITP 1400#, SICP 1415#. Flowed 6 hours on  $\frac{1}{2}$ " choke at end TP 140#, CP 265#, 970 MCFGPD. Unloaded estimated 5 bbls. diesel oil.
- 8-5 PD 7700'. Testing and Cleaning. SITP 1395#, SICP 1435#. Flowed 7 hours on  $\frac{1}{2}$ " choke, at end TP 120#, CP 275#, 845 MCFGPD, spray diesel oil. FINAL REPORT

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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form approved.  
Budget Bureau No. 41-2364-1.  
LAND OFFICE **Salt Lake City, Utah**  
LEASE NUMBER  
UNIT **Diamond Ridge Unit**

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County Grand Field Diamond Ridge

The following is a correct report of operations and production (including drilling and producing wells) for the month of July, 1963.

Agent's address 161 University Blvd. Company SUNRAY OIL COMPANY  
Denver, Colorado 80206

Phone 368-6411 Signed F. S. [Signature]  
Agent's title District Manager

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DATE PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
<u>Sec. 8 NE SE</u>	<u>17S</u>	<u>23E</u>	<u>1</u>	-	-	-	-	-	-	<u>SI - No Market</u>
<u>Sec. 23 NE SE</u>	<u>17S</u>	<u>22E</u>	<u>2</u>	<u>30</u>	-	-	<u>22,218</u>	-	<u>None</u>	<u>First Delivery 7-2-63</u>
<u>Sec. 14 SE NW</u>	<u>17S</u>	<u>22E</u>	<u>6</u>	<u>29</u>	-	-	<u>6,276</u>	-	<u>None</u>	<u>First Delivery 7-3-63</u>
<u>Sec. 5 NW SW</u>	<u>17S</u>	<u>23E</u>	<u>7</u>	<u>Completed as dry hole. Was plugged and abandoned 7-8-63.</u>						

108 5 8 1963

NOTE.—There were no runs or sales of oil; 26,494 M cu. ft. of gas sold; no runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.



**TED STATES**  
**DEPARTMENT OF THE INTERIOR**  
**GEOLOGICAL SURVEY**

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.

Utah - 05127

**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.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		UNIT AGREEMENT NAME <b>Diamond Ridge</b>
2. NAME OF OPERATOR <b>Sunray DX Oil Company</b>		FARM OR LEASE NAME <b>Diamond Ridge Unit</b>
3. ADDRESS OF OPERATOR <b>P. O. Box 729, Great Bend, Kansas 67530</b>		WELL NO. <b>6</b>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <b>1619' FSL and 2419' FEL of Sec. 14</b>		FIELD AND POOL, OR WILDCAT <b>Diamond Ridge</b>
14. PERMIT NO.		12. COUNTY OR PARISH <b>Grand</b>
15. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>6664' D.F.</b>		13. STATE <b>Utah</b>

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input checked="" type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>

(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.)\*

We propose to plug this well by setting a 20 sx. cement plug from 7475' to 7325'. Pull approximately 6500' of 5-1/2" casing. Set a 40 sx. cement plug 3482'-3382' across bottom of 8-5/8" casing. Pull approximately 2300' of 8-5/8" casing. Set a 80 sx. cement plug from 187' to 87' across bottom of 13-1/8" surface casing. Set a 10 sx. cement plug and dry hole marker in top of surface pipe. All intervals between the plugs are to be filled with 9.0#/gal. mud laden fluid. Perforations (frac notched) 7399' - 7402'.

APPROVED BY UTAH OIL AND GAS CONSERVATION COMMISSION  
DATE 1-9-67 by Paul H. Birchell  
Chief Petroleum Engineer

18. I hereby certify that the foregoing is true and correct  
SIGNED J. J. Northcutt TITLE District Engineer DATE 1-9-67  
(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

OIL AND GAS CONSERVATION COMMISSION

AFFIDAVIT AND RECORD OF ABANDONMENT AND PLUGGING

PLUGGING METHODS AND PROCEDURE: - The method and procedure for plugging a well shall be as follows:

- (a) The bottom of the hole shall be filled to, or a bridge shall be placed at the top of each producing formation open to the well bore, and in either event, a cement plug not less than **fifty (50) feet in length** shall be placed immediately above each producing formation open to the well bore whenever possible.
- (b) A cement plug not less than fifty (50) feet in length shall be placed at approximately fifty (50) feet above and below all fresh water bearing strata.
- (c) A plug shall be placed at or near the surface of the ground in each hole.
- (d) The interval between plugs shall be filled with heavy mud-laden fluid.
- (e) The hole shall be plugged with heavy mud up to the base of the surface string at which point a plug of not less than fifty (50) feet of cement shall be placed.

Field or Pool Diamond Ridge County Grand  
 Unit  
 Lease Name Diamond Ridge Well No. 6 Sec. 14 Twp. 17S R. 22E  
 Date well was plugged: May 12, 19 67.

Was the well plugged according to regulation of the Commission: Yes

Set out method used in plugging the well, the nature and quantities of materials used in plugging, size of plugs, location and extent (by depths) of the plugs of different materials, and the amount of casing left in hole, (giving size, top and bottom elevations of each section of abandoned casing).

Placed a 20 sack cement plug from 7435' to 7325', a 40 sack cement plug from 3482' to 3382', a 80 sack cement plug from 187' to 87' and a 10 sack cement plug and dry hole marker in the top of the surface pipe. All intervals between plugs were filled with 9.0 lbs. per gal. mud. Left in hole 13-3/8" OD casing 0 - 137'; 8-5/8" OD casing 2100' to 3432', and 5-1/2" OD casing 6100' to 7693'.

Operator J. J. Northcutt  
 Address J. J. Northcutt  
Sunray DX Oil Company  
P. O. Box 729  
Great Bend, Kansas 67530

AFFIDAVIT

STATE OF ~~UTAH~~ KANSAS

COUNTY OF BARTON

Before me, the undersigned authority on this day personally appeared J. J. Northcutt, known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein, and that said report is true and correct.

Subscribed and sworn to before me this 26th day of September, 19 67.

My Commission Expires: January 12, 1970

Peggy L. Olivan  
 NOTARY PUBLIC  
 Peggy L. Olivan

July 31, 1967

**Willard Fesse Drilling Company**  
P. O. Box 548  
2457 Industrial Boulevard  
Grand Junction, Colorado 81501

Re: Wells No. Diamond Ridge Unit #1,  
Sec. 8, T. 17 S., R. 23 E.,  
Diamond Ridge Unit #2,  
Sec. 23, T. 17 S., R. 22 E., and  
Diamond Ridge Unit #6,  
Sec. 23, T. 17 S., R. 22 E.,  
Grand County, Utah.

Gentlemen:

In checking our files it was noted that we have not as yet received the Subsequent Reports of Abandonment on the above mentioned wells.

It would be appreciated if, at your earliest convenience, you would forward to this office said reports.

Thank you for your cooperation in this matter.

Very truly yours,

**DIVISION OF OIL & GAS CONSERVATION**

**SHARON CAMERON**  
RECORDS CLERK

SC:cam

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

SUBMIT IN TRIPLICATE  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah 05127

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

**SUNDRY NOTICES AND REPORTS ON WELLS**

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Use "APPLICATION FOR PERMIT—" for such proposals.)

7. UNIT AGREEMENT NAME

Diamond Ridge

8. FARM OR LEASE NAME

Diamond Ridge Unit

9. WELL NO.

6

10. FIELD AND POOL, OR WILDCAT

Diamond Ridge

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

Sec. 14-T17S-R22E

12. COUNTY OR PARISH

Grand

13. STATE

Utah

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR

Sumray DX Oil Company

3. ADDRESS OF OPERATOR

P. O. Box 729, Great Bend, Kansas 67530

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

At surface

1619' FSL and 2419' FEL of Sec. 14

14. PERMIT NO.

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

6664' D.F.

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT\*

(Other)

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

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Placed a 20 sack cement plug from 7435' to 7325'. Pulled 6200' of 5-1/2" casing.  
Placed a 40 sack cement plug 3482' to 3382'. Pulled 2100' of 8-5/8" casing.  
Placed a 80 sack cement plug from 187' to 87'. A 10 sack cement plug and a dry hole marker was placed in the top of the surface pipe. All intervals between plugs were filled with 9 lb. per gal. mud. Plugging completed May 12, 1967.

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

SIGNED

*J. J. Northcutt*  
J. J. Northcutt

TITLE

District Engineer

DATE

9-26-67

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY: