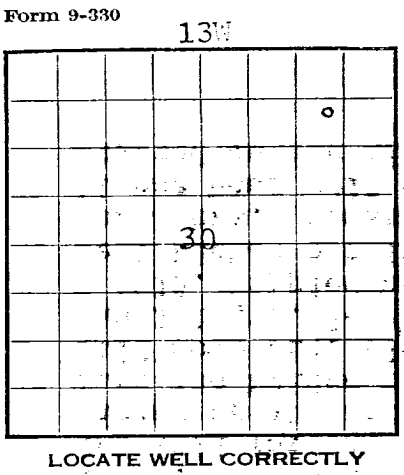
Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

Form 9-330



LOCATE WELL CORRECTLY

RECEIVED
SEP 28 1961
OIL CON. COM.
DIST. 3

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 078977
LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Compass Exploration, Inc. Address 101 University Boulevard Denver 6, Colorado

Lessor or Tract Federal Field Basin-Dakota State New Mexico

Well No. 1-30A Sec. 30 T. 30N R. 13W Meridian NMPM County San Juan

Location 790 ft. {N./S.} of N Line and 790 ft. {E./W.} of E Line of Section 30 Elevation 5578 (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 P. J. Farrelly

Date September 21, 1961 Title Chief Geologist

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

Commenced drilling 8/15/, 1961 Finished drilling 8/31/, 1961

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5945 to 6076 (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 From—	Perforated To—	Purpose
8-5/8"	24#	8RD	J-55	169'	Tex.Pat.				Surface
5-1/2"	15.5#	8RD	J-55	6247'	Baker		6176	5945	Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	169'	70 sxs Reg. 2% CaCl;	Displacement		
5-1/2"	6247'	125 sxs Diacel & Neat;	Displacement		

MARK

FOLD

PLUGS AND ADAPTERS

Heaving plug—Material - Length - Depth set -

Adapters—Material - Size -

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
½" x 3½	Notch Tool	Jet			6175 & 6176	
½"	Kone Shot	Jet			6076-5945	

TOOLS USED

Rotary tools were used from Surface feet to 6250TD feet, and from ____ feet to ____ feet

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

DATES

9/16, 1961 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 CAOF 2901 Gallons gasoline per 1,000 cu. ft. of gas ____

Rock pressure, lbs. per sq. in. 2004# SI Gas.

EMPLOYEES

Bob McEvoy, Driller XXXX Toolpusher, Driller

Aspen Drilling Company, Driller ____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
Surface	1375	1375	Tertiary - Cretaceous
1375	1460	85	Pictured Cliffs
1460	2872	1412	Lewis
2872	4130	1258	Mesaverde
4130	5086	956	Mancos
5086	5845	759	Gallup
5845	5895	50	Greenhorn
5895	5945	50	Graneros
5945	6250 TD	305	Dakota

(OVER)

16—48094-4

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

16—43094-2 U. S. GOVERNMENT PRINTING OFFICE

HISTORY OF OIL OR GAS WELL

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

8/31/61 TD 6250

Ran Induction-ES Log & Gamma Ray Sonic Log. Ran 197 jts 5-1/2" J-55, 15.5# ST&C casing. Set @ 6247. Cmt. w/75 sx diacel D,4% CaCl & 50 sx neat cmt. POB 1:05 a.m., 9/1/61. Ran temperature survey. 9-1-61 PBTD 6209. 9/2/61 - Two Notches: 6175 & 6176. Ran 2" EUE tbg. to 6190. Spotted 250 gals 7-1/2% breakdown acid. Pressured up to 4000#. Broke down notches. Pumped acid away at 2300#. Came out of hole with tubing. Shot 4 Lane Wells NCF-2 jet charges @ 4 pr ft from 6161 to 6165. Rigged up to frac with 4 Allisons. Fraced w/20,000# of 20-40 sand and 30,000 gallons jelled water. Breakdown pressure 3400#. Treated zone @ 3000#. Immediate shut-in pressure 2500#. Injection rate 30 bbls pr min. Ran 2" EUE tubing in and spotted @ 6150. Started testing lower zone. Zone flowing large quantity of frac water initially, and subsequently made gas too small to measure and large quantity of salt water. Pulled tbg. Ran cast iron bridge plug set @ 6130. Perforated zone from 6048 to 6076 w/4 shots pr ft. Lane Wells NCF-2 charges. Fraced zone with 40,000# 20-40 sand and 30,000 gals jelled water. Breakdown press. 3000#. Treating press. 2100#. Injection rate 45 bbls pr min. Dropped total of 30 balls. Got no ball action. Immediate shut-in press. 1000#. Spotted bridge plug, top drillable Baker magnesium @ 6035. Perforated 6015-6020, with 4 shots pr ft. AFTER perforating immediate pressure rise indicating communication with 2nd stage. Perforated 5967-5979 and 5945-5957 with 4 shots pr ft. Fraced zone with 20,000# 20-40 sand, 20,000 gals jelled water. Dropped 20 balls immediately in attempt to seal off communicative perfs. Formation broke down @ 1500#. Treated @ 2000# @ 46 bbls pr min. Immediate shut-in press. 1200#. Well started kicking immediately after frac. Started blowing well through casing. Well gauged after flowing 6 hrs 1,947 Mcf. Picked up tbg and bit. Set drilling head. Went in and cleaned out sand and bridge plug, set @ 6035. Came out of hole w/tbg. and bit. Laid down bit. Picked up 4' perfed joint and 4' pup joint w/bull plug. Ran 191 jts. 2-3/8" EUE tbg. with perforated joints and pup. Landed @ 6015. Nipped up well head. Laid flow line. Started flowing well. Well kicked off immediately. Flowed back head of water. Shut well in for 2 hrs. Press. built to 1000#. Opened well and started flowing. At one hour well gauged 2,400 Mcf. Casing flowing press. 700#. Started making mist of water.

9/3/61

9/4/61

9/5/61