

Sec. 20 #1

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company Skelly Oil Company Address Box 38 - Hobbs, New Mexico
Lessor or Tract West Jal Unit Field Wildcat State New Mexico
Well No. 1 Sec. 20 T. 25S R. 36-E Meridian NMPM County Lea
Location 1980 ft. N. of N Line and 660 ft. E. of E Line of Sec. 20 Elevation 3092' DF
(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] E. G. G.
Date July 30, 1962 Title Dist. Supt.

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

Commenced drilling December 25, 1961 Finished drilling July 20, 1962

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

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No. 1, from	11,770'	to	11,777'	No. 4, from	11,958'	to	11,968'
No. 2, from	11,808'	to	11,815'	No. 5, from		to	
No. 3, from	11,860'	to	11,894'	No. 6, from		to	

IMPORTANT WATER SANDS

No. 1, from _____ to _____

No. 2, from _____ to _____

No. 3, 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—	
20"	94#	8-R	SS H40	835'	Guide	-	-	-	Surface
13-3/8"	72-68-64	8R & SJ	N80 AOS 8WSJ	6268'	Float	-	-	-	Intermediate
9-5/8"	53.5-47 43.5	8R & BT	P11Q AOS	11,704'	Guide	-	-	-	Production

MUDDING AND CEMENTING RECORD

	Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
MARK	20"	869	1630	Pump & Plug	-	---
	13-3/8"	6300'	3206	" "	-	---
	9-5/8"	11,732'	775	" "	-	---

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
Treatments - None						

TOOLS USED

Rotary tools were used from ----- 0 ----- feet to 12,058 feet, and from ----- feet to ----- feet

Cable tools were used from ----- * ----- feet to ----- feet, and from ----- feet to ----- feet

DATES

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 6139 ANCF Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. -----

EMPLOYEES

_____ , Driller
Kornegay _____ , Driller
Ferrell _____ , Driller
_____ , Driller
Roden _____ , Driller

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
0	1203	1203	Sand & red beds
1203	1930	127	Anhydrite
1330	3273	1943	Salt
3273	3348	75	Anhydrite
3348	3515	167	Sand
3515	3762	247	Sand & Anhydrite
3762	4196	434	Dolomite, Anhy. & sd.
4196	4430	234	Sand & Anhydrite
4430	4876	446	Dolomite & sand
4876	5154	278	Dolomite
5154	5206	52	Lime
5206	7804	2598	Sand
7804	7892	88	Sand
7892	10997	3105	Lime & shale
10997	11510	513	Lime
11510	12058	548	Lime & shale
			Top Anhydrite 1203'
			Top Salt 1330'
			Base, Salt 3273'
			Top Tansiel 3348'
			Top Yates 3515'
			Top 7 Rivers 3762'
			Top Queen 4196'
			Top Grayburg 4430'
			Top San Andres 4876'
			Top Delaware Lime 5154'
			Top Delaware Sand 5206'
			Top Basal Delaware 7804'
			Top Bone Springs 7892'
			Top Wolfcamp 10997'
			*Top Strawn 11510'
			*by samples
			Geological Tops by Schlumberger Sonic & Induction Electrical Surveys.

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
			Drill Stem Test No. 1 - 7795-7846: Tool open 3 hrs. through 5" drill pipe, 5/8" BHC, 1" THC. Good air blow immediately, gas to surface in 9 mins. Sweet gas flow at rate of 35 MCPPD throughout test. No fluid to surface. Pulled 5" OD drill pipe with 2520' of drill pipe remaining in hole, unloaded oil. Reversed out filling flow line, separator and recovered 10 bbls. fluid in tanks. Fluid estimated 75% oil & 25% drilling fluid, no formation water. Gravity 38.6 corrected. Recovered 180' gas cut drilling fluid with slight show of oil below circulating sub. 20 min. Initial SIP 1175#, 20 min. Final SIP 1035#. IFF 205#, FFP 460#, H.P. in and out 3655#.
			Drill Stem Test No. 2 - 8207-8242: Tool open 2 hrs. through 5" drill pipe, 5/8" BHC, 1" THC. Good air blow immediately, sour gas to surface in 20 mins. Gas flow at rate of 5 MCPPD throughout remainder of test. No fluid to surface. Recovered 240' sulphur water, no show of oil. 20 min. ISIP 790#, 20 min. FSIIP 355#. IFF 40#, FFP 65#. H.P. in and out 3735#.
			Drill Stem Test No. 3 - 8712-8750: Tool open 3 hrs. through 5" drill pipe, 5/8" BHC, 1" THC. No water blanket. Good air blow immediately. Good gas blow in 4 mins. with no gauge on gas. Gas gradually declined to very weak blow at end of test. No fluid to surface. Recovered 240' gas cut sulphur water, no show of oil. 20 min. ISIP 2900#, IFF 180#, FFP 320#, 60 min. FSIIP 2450#.
			Drill Stem Test No. 4 - 11,500-11,553: Tool open 2-1/2 hrs. thru 5" drill pipe, 1/2" BHC, 1" THC. 9000' water blanket. Tool open 1 hour, closed tool for 1 hour ISIP. Reopened tool for 1-1/2 hrs. closed tool for 1 hour final shut in pressure. Gas to surface in 60 mins. Gas flow gradually increased throughout remainder of test to good blow at end of test. Gas measured 255 MCPPD at end of test. No fluid to surface. Recovered 23000' water blanket which was gas cut and 160' gas cut mud, no distillate and no formation water. First hour ISIP 6595#, IFF 1385#, FFP 1455#, Final 1 hr. shut in pressure 6065#. H.P. in 6820#, out 6755#.
			Drill Stem Test No. 5 - 11,782-11,787: Tested with 4-1/2" OD drill pipe, 1/4" BHC, 1/4" THC. 5000' water blanket. Tool open 1 hour with fair blow of air immediately and continued as fair air blow at end of first hour. Shut tool in after 1 hour for 1 hr. ISIP. Reopened tool with no blow after being shut in for 1 hr. Closed tool for 1 hr. Pulled out of hole. Found from chart that 1/4" choke had plugged after being open approx. 2 mins. on initial opening. H.P. (in) indicated a bottom hole pressure of 7470#. Recovered 720' gas cut water blanket & 90' of extra fluid which was gas cut. mud.
			Drill Stem Test No. 6 - 11,782-11,787: Tested with 4-1/2" OD drill pipe, 3/8" BHC, 1" THC. Various. 7000' water blanket & 90' mud above tool. Opened tool with good air blow, continued good for 1 hour at which time tool was closed for 60 min. Initial build up pressure. After tool opened 2nd time, flowed to pits 2 hrs. to clean up and turned to separator. Tested on 13/64" choke, flowing pressure 750#. Gas volume 2910 MCPPD. On 9/64" choke, flowing pressure 875#, gas volume 2580 MCPPD. Total fluid recovered during 1 1/4 hrs. of testing was 46 bbls. heavily gas cut mud with small amount of condensate. Tool left open for a total of 18 hrs. & 24 mins. Shut in for 2 hrs. build up pressure. Reversed out drill pipe, recovered estimated 4 bbls. of 47.5 corrected gravity condensate, no water. First 1 hr. ISIP 7535#, FFP 4155#, FFP 1345#. 2 hr. shut in pressure 6955#. H.P. in 8430#, out 8205#.
			Gas test on well: After 2 hr. flow period gas measured 6139 MCF per day flowing through 2-1/2" tubing, 17/64" choke positive choke for a calculated AOF potential of 310,000 MCF per day, T.P. 6186#.

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.