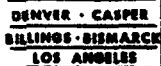


CASE 2483



29 29N 13W
LOC (P.1.) 2310 N/S 330 W/E NE SE
Aztec Oil & Gas
CO. Company
#16--G Hagood
WELL Totah
FIELD San Juan, New Mexico

32347 LWIE	100 NO
29 29N 13W	

LAME WELLS INDUCTION

Electricity

FILE NO.			
COMPANY	AZTEC OIL & GAS COMPANY		
WELL	HAGOOD 16-G		
FIELD	TITAH GALLUP		
COUNTY	SAN JUAN	STATE	NEW MEXICO
LOCATION	2310 FSL & 350 FEL		Other Services M/L
SEC. 29	TWP. 23N	RGE. 13W	

Permanent Datum	G 1			Rev.	5825
Log Measured From	K B	G	M Above Permanent Datum	KI	5814
Drilling Measured From	K B	OR	A ABOVE G 1	PI	5835
				CI	5825

Date	1-25-61		
Bit No.	ONE		
Depth - Drill	5875		
Depth - Log	5875		
Depth - Logger	5872		
Bottom Logged Interval	201		
Core Logged Interval	8.50 @ 202		
Core - Drill	203		
Core - Logger	203		
Bit Size	7 3/8		
Type Fluid in Hole	CHEMICAL GEL		

Density and Viscosity	9.6	70		
psi and Fluid Loss	9.0	75	cc	50
Flow Line				
Bit @ 1 Minute	2.0	98	cc	10
Bit @ 30 Sec.	3.8	98	cc	10
Bit @ 15 Sec.	3.8	98	cc	10
Bit @ 10 Sec.	4.0	98	cc	10
Bit @ 5 Sec.	4.0	98	cc	10
Bit @ 1 Min.	2.0	98	cc	10
Bit @ 30 Sec.	3.8	98	cc	10
Bit @ 15 Sec.	3.8	98	cc	10
Bit @ 10 Sec.	4.0	98	cc	10
Bit @ 5 Sec.	4.0	98	cc	10
Bit @ 1 Min.	2.0	98	cc	10
Bit @ 30 Sec.	3.8	98	cc	10
Bit @ 15 Sec.	3.8	98	cc	10
Bit @ 10 Sec.	4.0	98	cc	10
Bit @ 5 Sec.	4.0	98	cc	10
Bit @ 1 Min.	2.0	98	cc	10
Bit @ 30 Sec.	3.8	98	cc	10
Bit @ 15 Sec.	3.8	98	cc	10
Bit @ 10 Sec.	4.0	98	cc	10
Bit @ 5 Sec.	4.0	98	cc	10
Bit @ 1 Min.	2.0	98	cc	10
Bit @ 30 Sec.	3.8	98	cc	10
Bit @ 15 Sec.	3.8	98	cc	10
Bit @ 10 Sec.	4.0	98	cc	10
Bit @ 5 Sec.	4.0	98	cc	10
Bit @ 1 Min.	2.0	98	cc	10
Bit @ 30 Sec.	3.8	98	cc	10
Bit @ 15 Sec.	3.8	98	cc	10
Bit @ 10 Sec.	4.0	98	cc	10
Bit @ 5 Sec.	4.0	98	cc	10
Bit @ 1 Min.	2.0	98	cc	10
Bit @ 30 Sec.	3.8	98	cc	10
Bit @ 15 Sec.	3.8	98	cc	10
Bit @ 10 Sec.	4.0	98	cc	10
Bit @ 5 Sec.	4.0	98	cc	10
Bit @ 1 Min.	2.0	98	cc	10
Bit @ 30 Sec.	3.8	98	cc	10
Bit @ 15 Sec.	3.8	98	cc	10
Bit @ 10 Sec.	4.0	98	cc	10
Bit @ 5 Sec.	4.0	98	cc	10
Bit @ 1 Min.	2.0	98	cc	10
Bit @ 30 Sec.	3.8	98	cc	10
Bit @ 15 Sec.	3.8	98	cc	10
Bit @ 10 Sec.	4.0	98	cc	10
Bit @ 5 Sec.	4.0	98	cc	10
Bit @ 1 Min.	2.0	98	cc	10
Bit @ 30 Sec.	3.8	98	cc	10
Bit @ 15 Sec.	3.8	98	cc	10
Bit @ 10 Sec.	4.0	98	cc	10
Bit @ 5 Sec.	4.0	98	cc	10
Bit @ 1 Min.	2.0	98	cc	10
Bit @ 30 Sec.	3.8	98	cc	10
Bit @ 15 Sec.	3.8	98	cc	10
Bit @ 10 Sec.	4.0	98	cc	10
Bit @ 5 Sec.	4.0	98	cc	10
Bit @ 1 Min.	2.0	98	cc	10
Bit @ 30 Sec.	3.8	98	cc	10
Bit @ 15 Sec				

LOC (P.I.)	19 29N 13W
	2130 N/S 3450 W/E NE SW
CO.	Aztec Oil & Gas
	Company
WELL	#27-G Hagood
FIELD	Total
	San Juan, New Mexico

33936 WIE
LOG NO. _____

DENVER
CASPER
BILLINGS

DURANGO
BISMARCK
SALT LAKE CITY

P. I. COMPLETION INFORMATION

AZTEC OIL & GAS #27 HAGOOD "G", dc sw 19-29n-13w, 2130 n/s 3450 w/e. TOTAL
 Coord: Summit. Pl Base Map #NMB-1A. 29n-13w
 Spud 5-20-61. Cg: 8-5/8" @ 199 w/225; 4 1/2" @ 5199 w/400. EI: 5358 DF. Log Tops.
 Plr Cliffs 1023. Cliff Base 2585. Pl Lookout 3515. Gulf 4253. 5900 TD. PB 5160.
 Perf 5104-16 w/8 per ft; ad oil fract. Comp 6-3-61. BPP 421 BOPD then 2074 "cr. Prod Zone: Gallup 5104-16

TOTAL
28d-13w

(D)

[illegible]

32144 IE

PI.DENVER - CASPER
BILLINGS - BISMARCK
LOS ANGELES

LOC (P.I.)	34 29N 13W
	C SE SE
co.	Aztec Oil & Gas
	Company
WELL	#13-G Hagood
	Total
FIELD	San Juan, New Mexico

LOG NO
32144 IE
34 29N 13W

COUNTY SAN JUAN, N. MEX.		COMPANY AZTEC OIL & GAS	
FIELD or LOCATION SEC. 34-29N-13W		COMPANY	
WELL HAGOOD NO. 13-G		WELL HAGOOD NO. 13-G	
COMPANY AZTEC OIL & GAS		LOCATION TOTAL GALLUP	
STATE NEW MEXICO		LOCATION SEC. 34-29N-13W	
COUNTY SAN JUAN		Elevation: D.F. 5915.1	
STATE NEW MEXICO		K.B. 5916.1	
FILING No.		or G.L. 5905.1	
Other Surveys		Location of Well	
N		660' FR S/L	
		660' FR E/L	
		SEC. 34-29N-13W	
FOLD HERE			
REMARKS C.D. USED , S.O. = 1-1/2"			
Cartridge No. 182L			
Panel No. 2378			
Sonde No. 269E			

SPONTANEOUS-POTENTIAL millivolts	DEPTH 2" - 100'	CONDUCTIVITY millimhos/m = $\frac{1000}{\text{ohms. m}^2/\text{m}}$
110 + MV		INDUCTION
		400 200 0
		600 400
		RESISTIVITY -ohms. m ² /m
		16" NORMAL
		0 100

COMPANY AZTEC OIL & GAS COMPANY
WELL HAGOOD NO. 13-G
FIELD TOTAL GALLUP - SEC. 34-29N-13W
COUNTY SAN JUAN STATE NEW MEXICO

SWSC FR 5774.1
SWSC TD 2780.1
DLR TD 5800.1
Elev:
KB
DF
GL 5903.1

SCHLUMBERGER WELL SURVEYING CORPORATION
J. Schumberger - President

AZTEC OIL & GAS COMPANY

Drilling and Completion Program

Morrison Water Supply Well
Totah-Gallup Field
San Juan County, New Mexico

Proposed Aztec Totah Pressure Maintenance Project

EXHIBIT No. 3

Estimated Top Morrison 5800'

Estimated Total Depth 6600'

Surface Casing

200' 13-3/8" Cemented to Surface

Oil String Casing

6600' 8-5/8" Cemented in two stages
First stage cemented from TD to top
of Gallup. Second stage from 100'
below Pictured Cliffs to surface.

Completion

Set-through type completion with
Morrison sands jet perforated. The
Morrison sands will be treated if
necessary to obtain desired produc-
tivity.

Estimated Production Rate

8,000 barrels of water per day.

33391 IE

2483



LOC (P.I.)	18 29N 13W
	705 N/S 2110 W/E SW SE
CO.	Aztec Oil & Gas
	Company
WELL	#1-C Smith
	Totah
FIELD	San Juan, New Mexico

LOG NO. 33391 IE
18 29N 13W

COUNTY SAN JUAN, NEW MEXICO		COMPANY AZTEC OIL & GAS COMPANY	
FIELD or LOCATION TOTAH GALLUP		WELL SMITH C #1	
WELL SMITH C #1		LOCATION SEC. 18-29N-13W	
STATE NEW MEXICO		COUNTY SAN JUAN	
FILING No.		Other Surveys	
Elevation D.F. 5245'		Location of Well	
K.B. 5245'		705' FR S/L	
or C.L. 5235'		2110' FR E/L	
		SEC. 18-29N-13W	

RUN No.	ONE
Date	4-29-61
First Reading	5082
Last Reading	189
Feet Measured	4883
Cas. Schum.	199
Cas. Driller	200
Depth Reached	5088
Bottom Driller	5085
Depth Datum	KB
Mud Nbr.	GEL CHEM
Dens. Visc.	9.5 7.3
Mud Resist.	1.9 @ 81' of
Res. BHT	1.2 @ 132' of
Temp	1.1 @ 80' of
Temp	1.2 @ 132' of
pH	8.0 @ 81' of
Wtr. Loss	8.8 CC/30 min.
Bit Size	7 7/8"
Spent - AM	16"
IND.	27.2"
Spent - AM	5FE 40
Op. Rig Time	1 1/4 HR
Truck No.	15887 ARH
Recorded by	HANDLEY
Checked by	MD. HANLEY

FOLD HERE

REMARKS	STD. C.D. USED	S.O. = 13"
MUD FROM FLOW LINE		
SP SENSITIVITY SURF. - 4000' - 15 MV; 4000' - TD - 10 MV		
Cartridge No.	C134	
Panel No.	B179	
Sonde No.	F 94	

SPONTANEOUS-POTENTIAL millivolts	DEPTHS	CONDUCTIVITY millimhos/m = $\frac{1000}{\text{ohms. m/m}}$
- 15 + MV	2" - 100'	INDUCTION
		400 200 0
		600 400
		RESISTIVITY -ohms. m ² /m
16" NORMAL	0 100 1000	0 100
		0 1000

2022 2483



31237 IE

LOC (P.I.) 29 29N 13W

710 S/N 390 W/E NE NE

CO, Aztec Oil & Gas

Company

WELL #7-G Hagood

Total

FIELD San Juan, New Mexico

Reproduced from best original available

LOG NO 31237 IE

29 29N 13W

SCHUMBERGER WELL SURVEYING CORPORATION Production - Electrical Log		COUNTY SAN JUAN FIELD or LOCATION 710 S/N 390 W/E NE NE WELL #7-G Hagood COMPANY AZTEC OIL & GAS COUNTY SAN JUAN STATE NM, U.S.A.		COMPANY AZTEC OIL & GAS WELL #7-G Hagood FIELD UNKNOWN LOCATION 29-29N-13W LOCATION of Well 710 S/N 390 W/E NE NE Elevation: D.E. 5554 K.B. 5555 or G.L. 5545	
RUN No. 10-23-00 Date 5/10/88 First Reading 3:20 Last Reading 3:29 Feet Measured 322 C.G. Station 322 C.G. Driller 322 Depth Reached 322 Bottom Driller 322 Depth Datum 322 Mud Net 322 Mud Visc. 322 Mud Resist. 322 Ref. BHT 322 Ref. 322 pH 322 Wt. Loss 322 Bit Size 322 Spec. AM 322 MND 322 Oor Rig Time 322 Truck No. 322 Recorded By 322 Witness 322		FOLD HERE		REMARKS C.D. S.O.	
Cartridge No. 322 Panel No. 322 Sonde No. 322					

SPONTANEOUS-POTENTIAL millivolts	DEPTHS 100	CONDUCTIVITY millimhos/m = $\frac{1000}{\text{ohms. m /m}}$	
		INDUCTION	
		400	0
		500	400
		RESISTIVITY -ohms. m ² /m	
		16" NORMAL	
		0	100
		0	1000