

Cable Address
BAUMGARTNER OIL

BAUMGARTNER OIL COMPANY
737 GRANT STREET
DENVER, COLORADO 80203
PHONE 222-1719

BAUMGARTNER OIL COMPANY USA #1

NW NE 19-8S-38E (Bluitt Field)

Roosevelt County, New Mexico

GEOLOGICAL REPORT

Spud Date:	July 8, 1969
Completion Date:	August 4, 1969
Well Status:	Producing
Total Depth:	4775' Driller and Logger
Surface Casing Record:	Ran joints of 8-5/8" 20# csg. Landed @ 325' and cemented w/200 sx. cement, 4% gel & 2% CaCl.
Contractor:	Verna Drilling Co., Levelland, Texas
Tool Pusher:	Roy McGuire
Geologist:	J. C. Harrod
Elevation:	4005' G.L., 4014' K.B.
Production Pipe:	Ran 154 joints 5-1/2" 14# new csg. Landed @ 4775'. Cemented w/125 sx. 2% gel & 10% salt
Logging Program:	Laterolog - TD - B/surf. csg. Micro-Laterolog - TD - 3750' Densilog - TD - 3500'
Service Companies:	Dresser Atlas (Logs & Perforations) Dresser Magcobar (Mud) B.J., Inc. - (Acid Treating)

WELL DATA

LOG TOPS

San Andres	3914'
PSI Zone	4452'
First Porosity Zone	4500'-4764'
Second Porosity Zone	4724'-4774'

SAMPLE DESCRIPTION

4500-4530'	Sample analysis commenced @ 4500'. Dolomite tan-gry. hd. argillaceous to slightly argillaceous w/anhydrite stringers & anhydrite infilling in crystal forms.
4530-4600'	Dolomite AA/traces of dark tan-gry. Finely crystalline & micro-granular dolomite w/low-poor porosity. No visible stain.
4600-4730'	Dolomite AA/increase in streaks of porosity AA & Mc.
4730-4740'	Anhydrite light-medium gry., hard w/thin stringers of hard tan-gry. dolomite AA (Est. Top Porosity @ 4717')
4740-4775'	Dolomite dark tan-gry. Finely crystalline & micro-granular w/low-poor porosity. Traces of pinpoint vugular porosity. Traces of slight oil stain w/dark golden yellow fluorescence.
TD 4775'	30-minute circulating sample Dolomite AA 60-minute circulating sample Dolomite AA 90-minute circulating sample Dolomite AA

BIT RECORD

<u>No.</u>	<u>Size</u>	<u>Make</u>	<u>Type</u>	<u>Depth Out</u>	<u>Footage</u>	<u>Hours</u>
	12-1/4	Hughes	OSC-J	325'	325'	4-3/4
1	7-7/8	"	CIC3AJ	1209'	884'	11-1/4
2	"	"	CIC-J	2526'	1317'	19-3/4
3	"	"	CIC-J	3538'	1012'	18-3/4
4	"	"	OSC-J	3953'	415'	14-3/4
5	"	"	OWV	4252'	299'	20-1/2
6	"	"	OWVC	4478'	226'	18-1/2
7	"	"	OWC-J	4615'	137'	18-3/4
8	"	"	OWC-J	4695'	80'	11-1/4
9	"	"	OWC-J	4775'	80'	11-1/4

MUD RECORD

Type Mud: Salt Gel, 3-10% oil properties @ 4616' drilling; Weight 10.4#; Funnel Viscosity 38; Water Loss 11.4; Chloride 166,000 ppm; Oil Content 3% by Volume; Solids Content 6% by Volume; PH 6.5% by Volume.

SLOPE TESTS *

<u>Date</u>	<u>Depth</u>	<u>Degree Inclination</u>	<u>Date</u>	<u>Depth</u>	<u>Degree Inclination</u>
7-8-69	325'	3/4	7-11-69	3029'	3/4
7-10-69	818'	3/4	7-12-69	3525'	1-1/4
7-10-69	1209'	1/2	7-13-69	3953'	1-1/2
7-10-69	1707'	3/4	7-14-69	4252'	1-1/4
7-10-69	2200'	3/4	7-16-69	4615'	3/4
7-11-69	2526'	3/4	7-17-69	4775'	3/4

DRILLING TIME

10' Drilling Time: 4470-4700'

4470-4500'										60	47	58
4500-4600'	64	73	82	80	76	89	96	95	78	90		
4600-4700'	100	50	51	77	90	84	102	86	60	94		

5' Drilling Time: 4700-4775'

4700-4750'	27	36	47	47	47	50	39	39	30	40		
4750-4775'	34	37	35	51	62							

PRODUCTION HISTORY

First Porosity Zone: Perfs: 4684-4706' w/16 shots
4632-4681' w/22 shots
4592-4632' w/12 shots

July 22 - Ran tbg. w/pkr. & spotted 1,000 gals. acid of perfs. Raised pkr. & set it @ 4,555' above perf. interval. Acidized w/a total of 5,000 gals. 15% Hcl w/inhibitors. Emulsion breaker added. Injected 75 ball sealers spaced in acid. Injected @ 4-1/2 bbls. min. w/1600# IP increasing to 2100# @ end of treatment. SI 30 min. Surf. press. 850#. Released press. Flowed back 50 bbls. acid wtr. in 1st hr. & well died. Ran swab 6 times - 1st run, FL @ the surf. 2650', 2nd run - 3650', 3rd run - 4100', 4th run - no fluid, 5th run - waited 20 min. & had 150' of build up.

July 23 6th run - after 1/2 hr. had 400' of build up & good gas flow. 7th run - no fluid, good gas flow. 9th run - gas. 7:40 PM - blowing gas. Lit a flare & the flare was 20' long & 10' high. Est. about 300,000 cu. ft./day. SI 8:00 PM, 1450# psi. Swabbed about 16 BLW, getting good gas flow right after we pull swab. Swabbing from below pkr. Have to kill well & go in & perf. the lower zone.

July 25 Second Porosity Zone (Main Pay Zone) Perf: 4760-4762' w/4 shots
4734-4754' w/40 shots

Set prod. retainer @ 4742'. Acidized w/5,000 gals. @ 8 BPM injection rate w/3500# average injection press. Used 66 glass balls w/good action. Press. bled down to zero. Well commenced flowing back load acid wtr. & oil (15%). Swabbed & flowed oil @ 3.3 BPH. Pumping unit installed to increase daily production average. Initial Potential Pumping: 140 BOPD.

* This is a statement verifying that the slope tests ran by Verna Drilling Company on the Baumgartner Oil Company #1 USA well were checked by me at the well site upon my arrival on July 14, 1969.

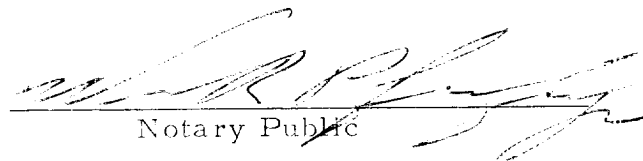
It is my belief that the hole deviations as reported, as well as witnessed, by me are a true survey for the hole.


JOHNNY C. HARROD
Well Site Geologist

STATE OF COLORADO)
CITY AND) ss.
COUNTY OF DENVER)

Before me, Wm. R. Pfeifer, Jr., a Notary Public in and for said State, on this 21st day of August, 1969, personally appeared Johnny C. Harrod, to me known to be the identical person subscribed the name of the maker thereof to the foregoing instrument and acknowledged to me that he executed the same as his free and voluntary act and deed, and as the free and voluntary act and deed of such corporation for the uses and purposes therein set forth.

Witness my hand and official seal.


Notary Public

My commission expires February 13, 1972.