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GEOLOGICAL COMPLETION REPORT FOR
BRITISH-AMERICAN #1 NAVAJO

Well Classification:

Exploratory well, Bisti-Callup
San Juan County, New Mexico
British-American #1 Navajo
C NW NW Sec. 15-26N-14W

Well Data:

Commenced drilling:	October 30, 1956
Completed drilling:	November 22, 1956
Contractor:	Foree Drilling Company
Casing Record:	Set 10-3/4" at 1000 K.B. w/400 sax cmt 3% gel. 400 sax cmt. 2% CaCl ₂
Elevation:	6129.4 CL; 6139.3 KB
Total Depth & Datum:	Driller 5928+211
PBTD, Datum and Formation:	Plugged and abandoned

Completion Data:

Producing zone:	Plugged and abandoned
Perforations and treatment:	Spotted 30 sax cmt w/5% gel from 1050-1150
	" 1450-1550
	" 3650-3750
	" 4350-4950
	" 5620-5720
	Spotted 10 sax cmt w/6% gel. bottom surface casing 930-1000.

Geological Data:

Logging Data:

Samples:	10' samples from 4988-5920 Stored at: American 2' samples from 5920-5928 Stratigraphic, Denver, Colorado
Electric Log:	Run #1 -2" E.S. 1012-4572 K.B. 5" E.S. 4250-4572 " Run #2 -2" E.S. 4565-4976 " 5" E.S. 4565-4976 " Run #3 -2" E.S. 4750-5929 " 5" E.S. 4750-5929 "
Microlog:	Run #1 -1100-4974 K.B. Run #2 -4750-5929 K.B.
Laterolog:	Run #1 -1100-4972 K.B. Run #2 -4750-5929 K.B.
Ceolograph:	1002-5928 K.B.



British-American #1 Navajo:

Formation Record:

	<u>Schl. Top</u>	<u>Schl. Datum</u>
Pictured Cliffs ss.	1233	+ 4901
Mesa Verde fm.	1503	+ 4631
Ft. Lookout fm.	3680	+ 2459
Mancos sh.	3835	+ 2254
Upper Gallup ss.	4300	+ 1339
Gallup Pay	4882	+ 1257
Sanastee fm.	5190	+ 949
Upper Greenhorn ls.	5429	+ 710
Greenhorn ls.	5565	+ 574
Graneros sh.	5650	+ 509
Dakota fm.	5657	+ 432

Core Record:

<u>Core #1</u>	<u>Interval</u>	<u>Formation</u>	<u>Ft. Recovered</u>
#1	4830-4933	Gallup	53'
#2	4933-4936	Gallup	53'
#3	5709-5760	Dakota	40'

Drill Stem Test Record:

None

THE BRITISH AMERICAN OIL PRODUCING COMPANY

Core Report

LEASE Navajo WELL NO. #1 FIELD Bisti-Gallup
 Core No. 1 From 4880 To 4933 Total Recovery in Feet 53' COUNTY San Juan
 Cutterhead: Size 7-13/16/31 Kind Dowco Date Core Taken _____

DEPTH From To		Coring Time Min. Per. Ft.	Amf. Rec. Dip	Complete Formation Description
4880'	4881.5'		1.5	Sh, blk, poker chip
4881.5'	4885'		3.5	Sh, blk, w/intlam silt stgrs.
4885'	4885.5'		.5	Transition from predom sh as above to vfg sh w/occ sh stgr.
	4887'		1.5	Ss, vfg, 75% w/intlam blk sh.
4887'	4888'		1	Sh, blk, 90% w/occ silt stgr.
4888'	4889.5'		1.5	Ss, vfg, 95% w/occ blk sh stgr, good odor.
4889.5'	4890'		.5	Ss as above, good odor, bleeding oil.
4890'	4891.5'		1.5	Ss as above, grading to fg at base w/inter sh, good odor
4891.5'	4894'		2.5	Ss, s&p, fg, ti, good stn & odor.
4894'	4894.3'		.3	Sh, blk w/silt stgrs.
4894.3'	4894.6'		.3	Ss, s&p, fg, ti, good stn & odor.
4894.6'	4895'		.4	Sh, blk w/silt stgrs
4895'	4896.5'		1.5	Ss, s&p, f-mg, sl perm & por, good stn

Remarks _____

THE BRITISH AMERICAN OIL PRODUCING COMPANY

Core Report

LEASE Navajo WELL NO. 1 FIELD Bisti-Gallup
 Core No. 1 From 4890 To 4933 Total Recovery in Feet 53' COUNTY San Juan
 Cutterhead: Size 7-13/16/34 Kind Down Date Core Taken _____

DEPTH From To		Coring Time Min. Per. Ft.	Amt. Rec.	Dip	Complete Formation Description	Fluid Content
4896.5'	4897'		1.5		Ss, fg, s&p, good odor & stn, intlam w/50% blk sh.	
4897'	4897.5'		.5		Ss, fg, s&p, good stn & odor, ti.	
4897.5'	4898'		.5		Ss, vfg, ti, & 50% sh lam, ss has stn & odor.	
4898'	4899'		1		Ss, vf-fg, good stn & odor, ti.	
4899'	4900'		1		Transition from ss as above to predom blk sh & intlam sli, 60% ss w/good odor & stn.	
4900'	4906'		5		Ss, vfg, 50% w/intlam sh, ti, fnt odor & occ sli stn.	
4906'	4913.5'		8.5		Ss, vfg, 40% w/intlam blk sh, no stn, occ very fnt to no odor.	
4913.5'	4914.5'		1		Ss, vfg, 50% w/intlam blk sh, very sli odor. no stn.	
4914.5'	4917.5'		3		Ss as above, no stn or odor.	
4917.5'	4918.5'		1		Ss, fg, v calc, wh, ti, ns, many sh incl at base.	
4918.5'	4924'		6.5		Ss, vfg, ti w/60% blk sh.	
4924'	4927'		3		Ss, vfg-fg, ti, 50% blk sh, sli apparent stn, no odor.	
4927'	4933'		6		Ss, vfg, 60% intlam blk sh,	N.S.

Remarks _____

H. Holten
Signed

THE BRITISH AMERICAN OIL PRODUCING COMPANY

Core Report

LEASE Navajo WELL NO 1 FIELD Bisit-Callup
 Core No. 2 From 4933 To 4986 53' COUNTY San Juan
 Cutterhead: Size 7-13/16/3 1/2 Kind Dowco Date Core Taken _____

DEPTH From To		Coring Time Min Per Ft.	Amt Rec Dip	Complete Formation Description	Fluid Content
4933'	4940'		3	Fg, gry-wh, s&p, ss, poor-fair por, scatt lt stn, scatt sh ptgs, appears rew, no odor	
4940'	4953'		13	Fg, gry-wh, s&p, shly ss, poor por, tr lt stn, sbdt sh incl, no odor, Rew.	
4953'	4956'		3	Fg, gr-wh, shly ss, poor por, tr v lt stn, no odor, 50% sh incl, Rew.	
4956'	4957'		1	Fg, gr-wh, ss, poor por, even v lt stn, few sh incl, v fnt odor.	
4957'	4962'		5	Same, even fair stn, good odor.	
4962'	4963'		1	Fg, gr-wh, s&p, ss, fnt stn, poor por, abdt sh incl, v fnt odor.	
4963'	4966'		3	Same as 4957-62 except little tighter & shaller.	
4966'	4967.5'		1.5	Fg, gr-wh, hd ^{dns} ss, sl fract, no por, bleeding oil along fract, occ 1/4" sh ptgs.	
4967.5'	4970'		3.5	Same as 4963-66.	
4970'	4973.5'		3.5	Fg, gr-wh, hd ss, frequent sh incl, lt stn, fnt odor, v tight.	
4973.5'	4974.5'		1	Fg, gr-wh, hd dns shly ss, no odor.	
4974.5'	4976'		2.5	Fg, gr-wh, hd dns ss, fnt odor & stn.	
4976'	4986'		10	Fg, gr-wh, hd dns ss, no odor or stn, abdt sh incl & ptgs, Rew throughout.	

Remarks _____

H. Holtem

Signed

THE BRITISH AMERICAN OIL PRODUCING COMPANY

Core Report

LEASE Navajo WELL NO. #1 FIELD Bisti-Gallup
 Core No. 3 From 5709 To 5760 Total Recovery in Feet 39'8" COUNTY San Juan
 Cutterhead: Size 7-13/16/3 1/2 Kind Diamond/Dowco Date Core Taken 11-19&20-56

DEPTH		Coring Time Min. Per. Ft.	Amt. Rec.	Dip	Complete Formation Description	Foss. Content
From	To					
5709'	5711'3"		2'3"		Gr sltst & blk sh, lami, v hd & ti	
5711'3"	5715'2"		3'11"		Ss, gr, vfg, v. hd & ti, N.S., wet, hly V.F.	
5715'2"	5715'4"		2"		Sh, blk, fiss, carb.	
5715'4"	5719'		4'2"		Ss, gr, vfg, v. hd & ti, N.S. wet, V.F., 18 1/2 - 19 1/2	
5719'	5720'		1/2"		Sh, blk, v hd.	
5720'	5731 1/2'		11 1/2'		Ss-sltst, gr, v. thinly lami to 22, gr vfg, v. hd & ti, V.F. 23-23 1/2	
5731 1/2'	5732'		1/2"		Sh, blk.	
5732'	5737'		5'2"		Sltst, gr-dk gr, blk,	
5737'2"	5738'		10"		Lami sh & ss, ss vfg, gr, ti, v -sl odor.	
5738'	5739'		1'		Sh, blk, v. carb, w/pyr incl.	
5739'	5740 1/2'		1 1/2'		Lami, sh, sd & sltst, w/ sl vug, v sl odor & lt flor in ss lami	off/gas
5740 1/2'	5740'8"		2"		Sh, blk w/sd incl.	
5740'8"	5745'		4'4"		Ss & sltst, lami, gr, vfg, v hd & ti, occas sl scatt, p.p. flor in sd, no odor.	

Remarks

Signed

THE BRITISH AMERICAN

COAST GUARD

1/13/31

Have to

3

From 5709

7/13/14/31

N

Corling Time

To

Min. Per FL

5745	5748				
5746	5748				
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5799	5748				

Report

GINO

1/13/31

SAMPLE REPORT

Page #1

Date 19

WELL NAME	FROM	TO	THICK- NESS	Sample Description starts in the Lower Gallup	LITHOLOGY
British-American Navajo #1 Bisti-Gallup Area C NW NW section 15-26N-14W San Juan County, New Mexico	4983	4990		V.P.S. (sh & sdy sh)	
	4990	5000		V.F.S. Same some vfg sltst-brn	
	5000	5010		N.S.	
	5010	5020		Tr ss, gr-wh, vfg, cly fill no p&p, 88% sh, gr-dk gr, arg, mic,	
	5020	5030		10% gr, sltst	
	5030	5040		5% ss, wh, vfg, sl s&f, mic, no p&p, sltst & arg sh, gr, tr bent.	
	5040	5050		2% ss, wh, vfg, s&f, silty, p p&p, 15% sltst, v sdy sh, 83% gr,	
	5050	5060		lt gr, arg sh.	
	5060	5070		1% ss do, sltst gr-vfg, sh gr-brn, arg & mic	
	5070	5080		Same	
5080	5090	5090		Tr ss do, v cly fill, sltst do, v arg sh do	
5090	5100	5100		N.S.	
5100	5110	5110		N.S.	
5110	5120	5120		N.S.	
5120	5130	5130		Few sltst gr-vfg, s&p, mic, 98% sh, gr-dk gr, arg, mic, few sl carb.	
5130	5140	5140		Same	
5140	5150	5150		100% sh, brn, v arg, sl mic, sl calc.	
5150	5160	5160		Same	
5160	5170	5170		N.S.	
5170	5180	5180		100% sh, brn, clive gr, mic, arg, few carb, sl calc.	
5180	5190	5190		5% sltst gr-vfg, s&p, 95% sh do.	
5190	5200	5200		Same	
5200	5210	5210		Cons sltst, clac, gr, sh do.	
5210	5220	5220		20% calc sltst, 80% sh do, sl calc.	
5220	5230	5230		Same	

GEOLOGIST

SAMPLE REPORT

Date 19

WELL NAME	FROM	TO	THICK- NESS	LITHOLOGY
British-American Navajo #1	5230	5260		Same
	5260	5270		Same w/tr bent.
	5270	5280		Same
	5280	5300		N.S.
	5300	5330		N.S.
	5330	5340		100% sh, gr-olive gr, sl mic, tr bent.
	5340	5350		Same
	5350	5360		Same w/5% carb, tr coal
	5360	5390		Same
	5390	5400		Same, w/tr bent.
	5400	5410		100% sh, dk gr, blk, tr sh, brn sdy.
	5410	5420		Same w/tr gr-tan v arg sh.
	5420	5430		Same w/2% carb sh & coal.
	5430	5440		Same (no coal)
	5440	5470		Same
	5470	5480		P.S., sh incr gr-brn, arg.
	5480	5490		Same, w/tr mic bent.
	5490	5500		Same
	5500	5510		100% sh, gr-ck-gr-blk, v sl arg & mic flakey/
	5510	5520		Same - Ir w/coal incl.
	5520	5540		Same
	5540	5550		Do, sh, sl more mic.
	5550	5570		Same
	5570	5580		Same, tr bent.
	5580	5600		Same

GEOLOGIST

SAMPLE REPORT

Page Three

Date

WELL NAME

British-American
Navajo #1

FROM

TO

THICK-
NESS

LITHOLOGY

5600	5610	Same, tr v. arg sh-gr
5610	5620	Same, consi gr-brn, v arg sh.
5620	5630	Tr, v arg ls, brn, tr calc, sh, gr-brn, sh, gr-blk, few arg.
5630	5640	Same
5640	5650	Same
5650	5660	P.S. Same
5660	5670	1 cluster ss, wh, fg, sr, cln, gd p&p, sh do, tr bent.
5670	5680	100% sh, gr-blk, v sl mic.
5680	5690	Same w/few lt gr sh, arg.
5690	5700	3% ss, wh-tan, vfg, sr, sl glau, v sl cly fill, p-fair p&p, sl mic.
5700	5710	97% sh do, seems to have sl stn, flor & sl cut (oil base mud?)
5710	5712	3% ss do
5760	5770	Tr ss do, tr ss tan, v ply dev, shly, s&p, no p&p, 2% ss, gr-grn
5770	5780	s&p, glau, mic, s, r-a, sl cly fill, ply sort, no p&p.
5780	5790	Tr ss, vfg, tan, silty, v sl, s&p, no p&p, 99% gr-blk.
5790	5800	Tr ss, wh, fg, s.r., silty, p p&p, vsl cly fill, do.
5800	5810	Same, tr bent.
5810	5820	Tr ss do, v sl mic, 98% sh do, tr bent, mic.
5820	5830	Tr ss do, tr sltst, gr, vfg, glau, hd & ti, 97% sh do, tr bent do.
5830	5840	2% ss do, 98% sh do.
5840	5850	Same, w/consi sh, arg.
5850	5860	Tr ss do, Same
		Same
		2% ss, wh, vf-fg, s.R., sl mic, sl cly fill, p p&p, 97% sh, gr-blk,
		few sdy, tr bent.

GEOLOGIST

SAMPLE REPORT

Page Four

Date 19

WELL NAME	FROM	TO	THICK- NESS	LITHOLOGY
British-American Navajo #1	5860	5866		Tr ss do, 20% sdy sh, gr-brn, carb incl. 70% sh do.
	5866	5870		Tr ss do, tr sdy sh do, 97% sh gr-olive, v sl mic, tr lyr, tr bent
	5870	5880		Same
	5380	5390		3% ss, bf, sl mott, ply dev, gtz, v hd & ti, 97% sh do, w/tr bent.
	5890	5900		1% ss do, few gtz pebbles, soapy, v hd, r, 98% sh do, few carb.
	5900	5910		20% ss, wh, vf-fg, clean, v sl galu, tr glau, fair p&p, wet 79% sh do, 1% bent wh, few gtz pebbles do.
	5910	5914+Cl. 30"		5% ss do, 94% sh do, w/few sdy, 1% bent do.
	5914	5920		5% ss do, 10% chert & gtz frags, wh-soapy, v.a, 30% sh do.
				5% ss, wh, v gtz, no p&p.
	5920	5922		5% ss, wh, vfg, gtz, do, 10% gtz & chert, frags do, 85% sh do.
5922	5924		Same	
5924	5926			Tr ss wh, fg, a-s.R., sl cly fill, no p&p, few gtz pebbles, do.
				98% sh, gr-olive-gr.
5926	5928			Tr ss do, few gtz pebbles, 98% sh do, w/tr sh, lt gr, tr bent gr.