



KTECH

WELL SITE GEOLOGY - MUD LOGGING

2913 HERMOSA CT., GRAND JUNCTION, COLORADO 81504

MAILING ADDRESS: P.O. BOX 590, CLIFTON, COLORADO 81520 • (303) 241-9351

RECEIVED

May 25, 1992

MAY 28 1992

OIL CON. DIV.]
DIST. 3

Tracy Chancellor
Veteran Exploration Inc.
7535 E. Hampden Ave., Ste. 506
Denver, CO 80231

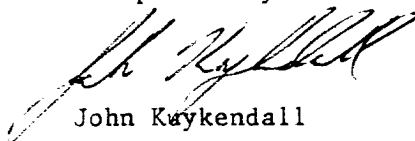
Mr. Chancellor:

Enclosed is the final log for your Johnson #5-14, located in Section 5, T20N, R2W of Sandoval County, New Mexico.

I appreciated the opportunity to serve you. If I can be of any further assistance in the final evaluation of the Gallup sands encountered, please feel free to call me.

It would be a pleasure to work with you in the future.

Respectfully



John Kaykendall

DEVIATION SURVEYS

WELL NAME JOHNSON #5-14

ELEVATION 6971' GL - 6983' KB

COMPANY VETERAN EXPLORATION INC.

SECTION 5, T20N, R2W

CONTRACTOR FOUR CORNERS DRLG. #14

LOCATION SANDOVAL Co., NEW MEXICO

SPUD DATE 5/7/92

TD DATE 5/24/92

[illegible]

VETERAN EXPLORATION INC.
JOHNSON #5-14
(SE/SW) SECTION 5, T20N, R2W
SANDOVAL Co., NEW MEXICO

DEVIATION SURVEYS

DEPTH	DEV	AZIMUTH	DEPTH	DEV	AZIMUTH	DEPTH	DEV	AZIMUTH
3766'	3.62	S74E	4549'	84.4	N5E	5397'	89.9	N.3E
3798'	2.88	S27.8E	4581'	82.8	N3E	5431'	89.6	N.3E
3829'	5.0	N57.8E	4612'	81.9	N2E	5463'	87.6	N.3E
3860'	8.63	N38.3E	4644'	81.9	N1.5E	5494'	84.6	N1.3E
3892'	12.25	N27.3E	4675'	81	N	5526'	84.1	N1.3E
3923'	15.63	N26.3E	4707'	80.9	N1W	5557'	82.7	N1.3E
3954'	19.0	N29.8E	4738'	81.9	N2W	5620'	82.9	N2.3E
3985'	22.25	N28.8E	4770'	84.1	N8.3E	5651'	82.7	N1.8E
4017'	25.25	N14.5E	4801'	85.9	N6.8E	5682'	81.6	N3.3E
4047'	28.5	N14E	4833'	87	N5.8E	5714'	79.3	N2.8E
4079'	31.8	N23.8E	4863'	87.4	N4.3E	5745'	78.5	N1.8E
4110'	36.1	N26.3E	4895'	87.3	N3.8E	5777'	82	N1.8E
4142'	40.5	N28.3E	4926'	87.3	N4.3E	5809'	80.8	N.8E
4173'	45.6	N28.3E	4958'	88.1	N3.3E	5839'	80.5	N.8E
4205'	49.88	N27.3E	4990'	88.1	N3.3E	5886'	80.5	N.8E
4235'	54.75	N27.3E	5021'	89.9	N3.3E	5918'	82.1	N.8E
4266'	59.1	N25.8E	5053'	89.8	N2.3E	5932'	84.4	N.7W
4297'	62.5	N24.3E	5084'	89.8	N1.3E	5964'	86	N.2W
4328'	66	N9.5E	5115'	89.6	N2.3E	5995'	86.8	N1.3W
4360'	69.1	N7.5E	5146'	89.6	N1.3E	6027'	85.1	N
4391'	72.4	N17.8E	5177'	89.6	N2.3E	6059'	83.4	N.3E
4423'	75.9	N16.8E	5209'	89.5	N.8E	6090'	82.6	N.8E
4454'	79.5	N16.3E	5271'	90	N1.3E	6127'	84.9	N.3E
4486'	83.1	N16.3E	5354'	89.9	N.8E	6153'	85.4	N.8E
4518'	84.3	N16.3E	5365'	89.9	N.8E			

BIT RECORD

WELL NAME JOHNSON #5-14

ELEVATION 6971' GL - 6983' KB

COMPANY VETERAN EXPLORATION INC.

SECTION 5, T20N, R2W

CONTRACTOR FOUR CORNERS DRLG. #14

LOCATION SANDOVAL Co., NEW MEXICO

SPUD DATE 5/17/92

TD DATE 5/24/92

[illegible]

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COMPANY VETERAN EXPLORATION INC.WELL NO. JOHNSON #5-14LOCATION 1620' FWL, 501' FSL, (SE/SW) SECTION 5, T20N, R2W, SANDOVAL Co., NEW MEXICO.ZONE OF INTEREST 1 FORMATION MANCOSINTERVAL: FROM 3822' TO 3827'DRILL RATE: ABV 1.7 MIN/FT THRU 2.4 MIN/FT BELOW 2 MIN/FT**MUD GAS-CHROMATOGRAPH**

	TOTAL	C1	C2	C3	C4	C5	OTHER
BEFORE	0						
DURING	0						
AFTER	0						

TYPE GAS INCREASE: GRADUAL ☐ SHARP ☐ HOLE CONDITIONS: WASHED ☐ FAIR ☐ IN GUAGE ☐GAS VARIATION WITHIN ZONE: STEADY ☐ ERRATIC ☐ INCREASING ☐ DECREASING ☐FLUO: MINERAL ☐ NONE ☐ POOR ☐ FAIR ☒ GOOD ☐ EVEN ☒ SPOTTY ☐FLUO COLOR: DULL YEL % IN SHOW LITHOLOGY 60%CUT: NONE ☐ CRUSH ☐ POOR ☐ FAIR ☒ GOOD ☐ STREAMING: SLOW ☒ MOD ☐ FAST ☐CUT COLOR: YELSTAIN: NONE ☐ POOR ☐ FAIR ☒ LIVE ☒ DEAD ☐ RESIDUE ☐ EVEN ☒ SPOTTY ☐ LT ☒ DK ☐POROSITY: POOR ☐ FAIR ☒ GOOD ☐ KIND INTERGRANULAR, POOR-FAIRLITHOLOGY SS lt-mgy, ltbrn stn ip, vf-fgr, sbrd-rd, calc, fri-frn, tt ip SAMPLE QUALITY GOODREMARKS 60% DULL YEL FLO, SLOW STRM CUTNOTIFIED TRACY CHANCELLOR @ 13:00 HRS. DATE 5/15/92ZONE DESCRIBED BY JOHN KUYKENDALL

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COMPANY VETERAN EXPLORATION INC.WELL NO. JOHNSON #5-14LOCATION 1620' FWL, 501' FSL, (SE/SW) SECTION 5, T20N, R2W, SANDOVAL Co., NEW MEXICO.ZONE OF INTEREST 2 FORMATION GALLUP - C SANDINTERVAL: FROM 4337' TO _____DRILL RATE: ABV 2 MIN/FT THRU 1 MIN/FT BELOW _____**MUD GAS-CHROMATOGRAPH**

	TOTAL	C1	C2	C3	C4	C5	OTHER
BEFORE	0						
DURING	0						
AFTER	0						

TYPE GAS INCREASE: GRADUAL ☐ SHARP ☐ HOLE CONDITIONS: WASHED ☐ FAIR ☐ IN GUAGE ☐GAS VARIATION WITHIN ZONE: STEADY ☐ ERRATIC ☐ INCREASING ☐ DECREASING ☐FLUO: MINERAL ☐ NONE ☐ POOR ☒ FAIR ☐ GOOD ☐ EVEN ☒ SPOTTY ☐FLUO COLOR: DULL ORNG YEL % IN SHOW LITHOLOGY 20%CUT: NONE ☐ CRUSH ☐ POOR ☒ FAIR ☐ GOOD ☐ STREAMING: SLOW ☐ MOD ☒ FAST ☐CUT COLOR: BRI YELSTAIN: NONE ☐ POOR ☒ FAIR ☐ LIVE ☐ DEAD ☐ RESIDUE ☐ EVEN ☐ SPOTTY ☐ LT ☐ DK ☐POROSITY: POOR ☒ FAIR ☐ GOOD ☐ KIND FRAC W/OCC INTERGRANULARLITHOLOGY SS ltgy-gybrn,vf-fgr,p-wsrted,wcmt,lmy,sbang-sbrd,ang ip,glauc ip,tt,vcalc_____ SAMPLE QUALITY GOODREMARKS TRACE OIL ON PITS, TRIP @ 4342'NOTIFIED TRACY CHANCELLOR @ 19:00 HRS. DATE 3/16/92ZONE DESCRIBED BY GEORGE NICHOLS

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COMPANY VETERAN EXPLORATION INC.WELL NO. JOHNSON #5-14LOCATION 1620' FWL, 501' FSL, (SE/SW), SECTION 5, T20N, R2W, SANDOVAL Co., NEW MEXICO.ZONE OF INTEREST 3 FORMATION GALLUP - C SANDINTERVAL: FROM 5361' TO 5366'DRILL RATE: ABV 1.5 MIN/FT THRU .75 MIN/FT BELOW 1.75 MIN/FT**MUD GAS-CHROMATOGRAPH**

	TOTAL	C1	C2	C3	C4	C5	OTHER
BEFORE	1	0					
DURING	43	.35%	TR				
AFTER	10	.08%	TR				

TYPE GAS INCREASE: GRADUAL ☐ SHARP ☒ HOLE CONDITIONS: WASHED ☐ FAIR ☒ IN GUAGE ☐GAS VARIATION WITHIN ZONE: STEADY ☒ ERRATIC ☐ INCREASING ☐ DECREASING ☐FLUO: MINERAL ☒ NONE ☐ POOR ☐ FAIR ☐ GOOD ☐ EVEN ☒ SPOTTY ☐FLUO COLOR: VDULL YEL % IN SHOW LITHOLOGY CUT: NONE ☒ CRUSH ☐ POOR ☐ FAIR ☐ GOOD ☐ STREAMING: SLOW ☐ MOD ☐ FAST ☐CUT COLOR: STAIN: NONE ☒ POOR ☐ FAIR ☐ LIVE ☐ DEAD ☐ RESIDUE ☐ EVEN ☐ SPOTTY ☐ LT ☐ DK ☐POROSITY: POOR ☒ FAIR ☐ GOOD ☐ KIND FRACTURELITHOLOGY SS Qtz, ltgy-gybrn, vf-far, mgr, ang-sbrd, m-wsrted, wcm, vcalc, hd SAMPLE QUALITY GOODREMARKS NOTIFIED TRACY CHANCELLOR @ 17:00 HRS. DATE 3/19/92ZONE DESCRIBED BY GEORGE NICHOLS

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COMPANY VETERAN EXPLORATION INC.WELL NO. JOHNSON #5-14LOCATION 1620' FWL, 501' FSL, (SE/SW), SECTION 5, T20N, R2W, SANDOVAL Co., NEW MEXICO.ZONE OF INTEREST 4 FORMATION GALLUP C SANDINTERVAL: FROM 5741' TO 5742'DRILL RATE: ABV 1 MIN/FT THRU .8 MIN/FT BELOW 1 MIN/FT**MUD GAS-CHROMATOGRAPH**

	TOTAL	C1	C2	C3	C4	C5	OTHER
BEFORE	5	tr	-	.02%			
DURING	77	.21%	.14%	.32%	.11%		
AFTER	5	tr	-	.02%			

TYPE GAS INCREASE: GRADUAL ☐ SHARP ☒ HOLE CONDITIONS: WASHED ☐ FAIR ☐ IN GUAGE ☒GAS VARIATION WITHIN ZONE: STEADY ☒ ERRATIC ☐ INCREASING ☐ DECREASING ☒FLUO: MINERAL ☐ NONE ☐ POOR ☐ FAIR ☐ GOOD ☒ EVEN ☒ SPOTTY ☐FLUO COLOR: VDULL YEL % IN SHOW LITHOLOGY 100%CUT: NONE ☒ CRUSH ☐ POOR ☐ FAIR ☐ GOOD ☐ STREAMING: SLOW ☐ MOD ☐ FAST ☐CUT COLOR: YEL STNSTAIN: NONE ☒ POOR ☐ FAIR ☐ LIVE ☐ DEAD ☐ RESIDUE ☐ EVEN ☐ SPOTTY ☐ LT ☐ DK ☐POROSITY: POOR ☐ FAIR ☐ GOOD ☒ KIND FRACTURELITHOLOGY SS ltgy,clr,sl glsy,f-mgr,sbang-sbrd,v-calc,fri-frn,tt ipSAMPLE QUALITY GOODREMARKS 100% VDULL YEL FLO, STN. SEE RELATED GAS INCREASES @ 5658', 5670' & 5802'. GAS INCREASESALL HAVE HIGHEST CONCENTRATION OF C3 than C1,C2,C4 & C5.NOTIFIED TRACY CHANCELLOR @ 10:45 HRS. DATE 5/21/92ZONE DESCRIBED BY JOHN KUYKENDALL

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COMPANY VETERAN EXPLORATION INC.WELL NO. JOHNSON #5-14LOCATION 1620' FWL, 501' FSL, (SE/SW), SECTION 5, T20N, R2W, SANDOVAL Co., NEW MEXICO.ZONE OF INTEREST 5 FORMATION GALLUP C SANDINTERVAL: FROM 6005' TO 6006'DRILL RATE: ABV 1.3 MIN/FT THRU 1.7 MIN/FT BELOW 5 MIN/FT**MUD GAS-CHROMATOGRAPH**

	TOTAL	C1	C2	C3	C4	C5	OTHER
BEFORE	TR						
DURING	47	.19%	.09%	.20%	.09%	TR	
AFTER	3	TR		.02%			

TYPE GAS INCREASE: GRADUAL ☐ SHARP ☒ HOLE CONDITIONS: WASHED ☐ FAIR ☐ IN GUAGE ☒GAS VARIATION WITHIN ZONE: STEADY ☒ ERRATIC ☐ INCREASING ☐ DECREASING ☒FLUO: MINERAL ☐ NONE ☒ POOR ☐ FAIR ☐ GOOD ☐ EVEN ☐ SPOTTY ☐

FLUO COLOR: _____ % IN SHOW LITHOLOGY _____

CUT: NONE ☒ CRUSH ☐ POOR ☐ FAIR ☐ GOOD ☐ STREAMING: SLOW ☐ MOD ☐ FAST ☐

CUT COLOR: _____

STAIN: NONE ☐ POOR ☐ FAIR ☐ LIVE ☐ DEAD ☐ RESIDUE ☐ EVEN ☐ SPOTTY ☐ LT ☐ DK ☐POROSITY: POOR ☐ FAIR ☐ GOOD ☒ KIND FRACTURELITHOLOGY SS clr,cgr,sbang-sbrd,uncons, & m-dkbrn,slty,glauc,vf-mgr,calc,frm,ttSAMPLE QUALITY GOOD

REMARKS _____

NOTIFIED TRACY CHANCELLOR @ 2:30 HRS. DATE 5/23/92ZONE DESCRIBED BY JOHN KUYKENDALL

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COMPANY VETERAN EXPLORATION INC.

WELL NO. JOHNSON #5-14

LOCATION 1620' FWL, 501' FSL, (SE/SW), SECTION 5, T20N, R2W, SANDOVAL Co., NEW MEXICO.

ZONE OF INTEREST _____ 6

FORMATION GALLUP C SAND

INTERVAL: FROM 6074'

TO 6075'

DRILL RATE: ABV _____ **THRU** 5 MIN/FT **BELOW** _____

MUD GAS-CHROMATOGRAPH

	TOTAL	C1	C2	C3	C4	C5	OTHER
BEFORE	10	.04%	-	.03%	TR		
DURING	235	.46%	.60%	.95%	.34%		
AFTER	5	.04%	-	.02%	-		

TYPE GAS INCREASE: GRADUAL ☐ SHARP ☒ HOLE CONDITIONS: WASHED ☐ FAIR ☐ IN GUAGE ☒

GAS VARIATION WITHIN ZONE: STEADY ☒ ERRATIC ☐ INCREASING ☐ DECREASING ☐

FLUO: MINERAL ☐ NONE ☐ POOR ☒ FAIR ☐ GOOD ☐ EVEN ☒ SPOTTY ☐

FLUO COLOR: VDULL YEL % IN SHOW LITHOLOGY 50%

CUT: NONE ☒ CRUSH ☐ POOR ☐ FAIR ☐ GOOD ☐ **STREAMING:** SLOW ☐ MOD ☐ FAST ☐

CUT COLOR: _____ STN

STAIN: NONE ☒ POOR ☐ FAIR ☐ LIVE ☐ DEAD ☐ RESIDUE ☐ EVEN ☐ SPOTTY ☐ LT ☐ DK ☐

POROSITY: POOR ☐ FAIR ☐ GOOD ☒ KIND _____ FRACTURE _____

LITHOLOGY SS lt-mgy,clr,glss,sl s&p,tr glauc,vf-mgr,sbang-rd,calc,fri-frn,tt

SAMPLE QUALITY GOOD

REMARKS VDULL YEL FLO, SL STN

NOTIFIED TRACY CHANCELLOR @ 13:00 HRS. DATE 5/23/92

ZONE DESCRIBED BY JOHN KUYKENDALL