30-005-04102
Log No. 24

New Mexico School of Mines
STATE BUREAU OF MINES AND MINERAL RESOURCES
Socorro, New Mexico

WELL LOG DIVISION

4324

County Chaves
Field Wildcat
Company McQuigg & McQuigg
Lease C. J. Neis Well No.1
Location(¼) C NW NW
Sec. 7 T. 5 S R. 29 E
feet from line and
feet from line of Sec.
Commenced: 10-15-27
Completed: 7-25-28
Abandoned:
Remarks:

660/N 660/W

Casing Record

Diam. In.	Bottom
12½"	769'
10"	1147'
6 5/8"	3165'

Elevation ? Feet
Initial Daily Production:
Open P & A bbls. Oil
Open cu.ft.Gas
Tbg. bbls. Oil
Tbg. cu.ft.Gas

FORMATION	BOTTOM, FEET
Soil and brown sandstone	30
B rown sandstone	40
Hard brown and conglomerate	45
Brown sandstone	65
Red beds	80
Red beds, blue spots	95
Red beds	140
Hard shale	145
Red beds	280
Red beds, streaked with blue	285
Red beds	350
Blue clay and red beds	375
Red beds	480
Red beds and gypsum	490
Red beds	565
Gypsum	590
Red beds	630
Gypsum	635
Red beds	685
Water sand, saline 5 bbl./hr	687
Red beds, "Vermillion"	710
Red rock	765
Red rock, blue shale and gypsum	770
Red beds	785
Gypsum	790
Red rock	865
Brown sandstone, littler saline, water 910' 4 bbl/hr 930'	930
Red rock	950
Gray sandstone, water increased 960' unable to bail down static head 400'	960
Brown sandstone	985
Red rock	990
Brown sandstone	1100
Gypsum and red rock	1130
Red rock, small gas 1170, white anhydrite	1170
Salt	1175
White anhydrite	1195
Vermillion red rock	1200
Red rock and anhydrite	1210
Red rock and blue shale, more gas 1220-1255	1255
Sandy brown shale	1235
Anhydrite and red rock	1245
Red rock	1250
Anhydrite	1265
Salt and red rock	1315
Anhydrite, showing salt crystals	1505
Red rock, show salt crystals	1515
Anhydrite	1550
Salt and gypsum	1575
Streaks red rock and salt	1605
Salt	1615
Red rock	1620
Salt	1630
Brown sand	1635
Red rock	1640
Salt	1645
Anhydrite	1650
Salt	1665
Red rock	1670
Salt	1675
Anhydrite	1695
Salt	1710
Shells	1712
Brown sand	1715
Shells	1718
Red rock	1730
Salt	1735
Anhydrite	1740
Anhydrite, salt and red rock	1760
Red rock	1775
Anhydrite	1790
Red rock	1810
Salt	1820
Salt and red rock streaks	1830
Brown sand	1840
Anhydrite	1850
Brown sandy shale	1875
Anhydrite	1880

Log No. 24
Sheet No. 2

New Mexico School of Mines
STATE BUREAU OF MINES AND MINERAL RESOURCES
Socorro, New Mexico

WELL LOG DIVISION

FORMATION	BOTTOM, FEET
Brown sandy shale	1910
Red rock	1935
Brown sandy shale	2035
Red rock	2045
Brown sandy shale	2090
Red rock	2100
Brown sand	2115
Red rock	2135
Brown sandy shale	2190
Red rock	2205
Gray lime	2209
Anhydrite	2255
Soft red rock	2270
Salt and red rock streaks	2300
Salt and anhydrite	2320
Hard anhydrite	2340
Gray lime	2350
Gray lime and anhydrite	2400
Anhydrite and salt	2410
Salt and blue shale	2425
Salt	2450
Anhydrite	2460
Anhydrite and salt	2475
Salt	2495
Anhydrite and salt	2510
Anhydrite,shale,salt and lime	2515
Hard gray lime	2530
Brown lime	2580
Lime and anhydrite	2585
Slate and anhydrite	2605
Light brown lime	2610
Lime and anhydrite	2625
White lime	2630
Gray lime	2655
Gray lime and little dark slate	2660
Dark gray lime	2705
Anhydrite and lime	2710
Gray lime	2720
Fine hard gray lime	2730
Gray lime	2745
Light gray lime	2760
Anhydrite	2775
Anhydrite and slate	2795
Salt and slate	2805
Anhydrite, slate and lime	2815
Hard gray lime	2820
Gray lime	2825
Hard gray lime	2835
Light gray lime	2840
Dark gray lime	2875
Light gray lime	2890
Gray lime	2900
Fine gray lime	2910
Gray lime	2915
Lime and slate	2920
Hard gray lime, dark	2940
Gray lime	2945
Dark gray lime, black scum and sulphur gas 2950	2950
Light gray lime	2955
Anhydrite and gray lime	2975
Anhydrite	2985
Light gray anhydrite and small amount salt, gray lime and small amount sand	3005
Dark lime	3010
Gray lime	3015
Light gray lime	3025
Dark gray lime	3030
Dark gray lime, trace sand	3045
Dark gray lime, 3005-45 oil stain with chloroform	3100
Gray lime	3130
Broken lime and slate	3135
Hard dark lime	3165
Brown lime	3210
Gray lime	3275
Black lime	3285
Gray lime	3287
Brown sandy lime	3295
Light brown lime	3305
Gray lime	3314
Gray sandy lime	3319
Fine gray lime 2500' water (sulphur) 3320	3325
Fine brownish gray lime	3340
Light gray lime	3345
Bluish lime and anhydrite	3350
Gray lime and anhydrite	3365
Light gray sandy lime	3368
Dark gray sandy lime	3375
Gray lime	3385
Gray lime and anhydrite	3389
Gray lime	3400
White quartzsand salt water 3400	3418
Sand	3428

Log No. 24
Sheet No. 3

New Mexico School of Mines
STATE BUREAU OF MINES AND MINERAL RESOURCES
Socorro, New Mexico

WELL LOG DIVISION

FORMATION	BOTTOM, FEET	FORMATION	BOTTOM, FEET
Gray sand some lime	3440		
Gray lime	3454		
Yellow-brown sand	3465		
Brown sand and salt	3468		
Brown sand and lime	3485		
Salt and sand	3495		
Brown sandstone	3505		
Red rock	3506		
Salt, red rock and sand	3510		
Salt, sandstone and red rock	3515 T. D.		

Sec 7 T-5S R-29E

commenced 10-15-7
completed 7-25-48

SAMPLE DESCRIPTION

Elev 4367
T.D. 3515
P & A

DESCR. BY J S H

PAGE 1

DATE 24 July 47

VALLIANT PRINTING CO., ALBUQUERQUE—15210

COMPANY	WELL NO.	LEASE	COUNTY	STATE
McQuigg	1	Nels	Chaves	N.M.

DEPTH FROM	DEPTH TO	ANHY.	POLY.	SALT	NON-RED SHALE %	NON-RED SHALE DESCR.	RED SHALE %	RED SHALE DESCR.	SANDSTONE %	SANDSTONE DESCR.	GRANITE WASH %	GRANITE WASH DESCR.	DOLOMITE %	DOLOMITE COLOR	DOLOMITE DESCR.	LIMESTONE %	LIMESTONE COLOR	LIMESTONE DESCR.	MISCELLANEOUS
0	45								95	LT Pink	Lota-cem coarse calc					5	LT Gry	DNS	
	55								95	"	"	"	"			5	"	"	
	65								100	"	"	"	"	silty					
	70						100	med											
	140	N.S.																	
	145						100	DK								100	with Gry	DNS	silty
	200	N.S.																	
	205						100	"	"										
	445	NS.																	
	450						100	LT Red											
	495	NS.																	
	"495"				5	LT Gy	95	"											
	525	N.S.																	
	30				5	"	95	med											
	550	N.S.																	
	"550"															100	with LT Pink	xline	
	570	N.S.																	
	"570"						85	Lilac								15	with	nodular	
	585	N.S.																	
	90						95	"								5	"	"	
	95	N.S.																	
	600						95	"								5	"	xline	
	10	N.S.																	
	15						85	"								15	"	"	
	25	NS.																	
	30						100	"								Tr	"	DNS	
	60	N.S.																	
	65	Tr			10	LT Gy	90	LT Red								Tr	LT Red	DNS	
	685	NS																	
	"685"						90	"								10	with	DNS	
	"687"						100	"											
	689						100	"											
	705	NS.																	
	10						100	med											
	725	NS.																	
	"725"						100	lilac											
	"750"						100	DK											
	"765"						70	"								30	Gry	DNS	

SAMPLE DESCRIPTION

PAGE 2

DESCR. BY RAH

DATE 24 July 47

VALLIANT PRINTING CO., ALBUQUERQUE—1210

COMPANY	WELL NO.	LEASE	COUNTY	STATE
Mc Quigg	1	Nels	Chaves	N.M.

DEPTH FROM	DEPTH TO	ANHY.	POLY.	SALT	NON-RED SHALE %	NON-RED SHALE DESCR.	RED SHALE %	RED SHALE DESCR.	SANDSTONE %	SANDSTONE DESCR.	GRANITE WASH %	GRANITE WASH DESCR.	DOLOMITE %	DOLOMITE COLOR	DOLOMITE DESCR.	LIMESTONE %	LIMESTONE COLOR	LIMESTONE DESCR.	MISCELLANEOUS
765	780	N.S.																	
	85						100	DK											
	90				5	LT Gy	90	"								5	wh	DNS-FK	
	825	N.S.																	
	30				15	Gry	85	"											
	42	N.S.																	
	48				15	"	85	med											
	865	N.S.																	
	"865"				40	LT Gry LT Gy	50	"	10	wh LT Gry	cream Fn								
	890	N.S.																	
	"890"				20	"	20	"	50	wh	Loose med					10	wh LT Red	xl/ne	
	905	N.S.																	
	10				10	"	40	"	40	"	"	"				10	"	"	
	17	N.S.																	
	22				5	"	5	"	90	wh LT Red	loose-cream med	calc							
	30				10	"	50	"	40	"	"	"	"						
	35	N.S.																	
	"35"				5	"	45	"	50	"	"	"	"						
	50	N.S.																	
	"50"				10	"	60	"	30	"	Loose-cream med-coarse	calc							
	60	N.S.																	
	"60"				5	"	10	"	85	"	"	"	"	"	"				
	75	N.S.																	
	80				10	"	30	"	55	"	"	"	"	"	"	5	Gy	DNS	
	90	N.S.																	
	"90"				10	"	30	"	60	"	loose med								
	1100	N.S.																	
	"1100"	80					20	"											
	1143	N.S.																	
	"1143"	85					15	"											
	1150	N.S.																	
	55	90					10	"											
	1170	N.S.																	
	"1170"	5	80				15	LT											
	"1175"	60	10				30	"											
	"1185"	95					5	"											
	"1190"	80	10				10	"											
	1200	N.S.																	

SAMPLE DESCRIPTION

PAGE 3

DESCR. BY JAH

DATE 24 July 47

VALLIANT PRINTING CO., ALBUQUERQUE—11310

COMPANY	WELL NO.	LEASE	COUNTY	STATE
McQuigg	1	Nels	Chaves	N.M.

DEPTH FROM	DEPTH TO	ANHY.	POLY.	SALT	NON-RED SHALE %	NON-RED SHALE DESCR.	RED SHALE %	RED SHALE DESCR.	SANDSTONE %	SANDSTONE DESCR.	GRANITE WASH %	GRANITE WASH DESCR.	DOLOMITE %	DOLOMITE COLOR	DOLOMITE DESCR.	LIMESTONE %	LIMESTONE COLOR	LIMESTONE DESCR.	MISCELLANEOUS
1200	1210	15					10	DK	75	LT Red	cem-loose FN								
	25	NS							~~100~~	~~✓~~	~~✓~~	~~✓~~	~~✓~~	~~Micaceous~~					
	30								100	✓	✓	✓	✓	Micaceous					
	37				10	Gry	90	Med SDY											
	45	45					45	Med	10	LT Red	cem FN								
	"50"	60					40	Med DK											
	"65"			90			10	✓											
	"75"	Tr		95			5	✓											
	1310	NS.																	
	[illegible]	90		5			5	LT											
	"40"	95		5			Tr	✓											
	"50"	5	5	85			5	✓											
	1390	NS.																	
	1400	10	Tr	85			5	✓											
	35	NS.																	
	45	10		90			Tr	✓											
	70	NS.																	
	"70"	10		85			5	✓											
	"75"	Tr		100			Tr	✓											
	1505	NS.																	
	18	20		70			10	✓											
	28	NS.																	
	40	10		90			Tr	✓											
	50	85		15															
	75	50		50			Tr	LT											
	1605	35		60			5	✓											
	25	60		25			5	✓	10	LT Red	cem FN								
	30	NS.																	
	40	Tr							100	✓	L-loose-cem FN								
	75			100															
	85	30		50					20	LT Red	cem FN								
	1720	Tr		100					Tr	✓	✓								
	40	10		70			5	LT	15	✓	✓								
	50	80					5	✓	15	✓	✓								
	75	75		15					10	✓	✓								
	90	45		10			45	LT											
	95	45			5	Gry	50	✓											
	1820			95			Tr	✓	5	LT Red	cem FN								

SAMPLE DESCRIPTION

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DESCR. BY J.L.H.

DATE 24 July 47

VALLIANT PRINTING CO., ALBUQUERQUE

COMPANY	WELL NO.	LEASE	COUNTY	STATE
McQuigg	1	Neis	Chaves	N.M.

DEPTH FROM	DEPTH TO	ANHY.	POLY.	SALT	NON-RED SHALE %	NON-RED SHALE DESCR.	RED SHALE %	RED SHALE DESCR.	SANDSTONE %	SANDSTONE DESCR.	GRANITE WASH %	GRANITE WASH DESCR.	DOLOMITE %	DOLOMITE COLOR	DOLOMITE DESCR.	LIMESTONE %	LIMESTONE COLOR	LIMESTONE DESCR.	MISCELLANEOUS
1320	1840	80							20	Lt Red	Cem Fn								SDY
	50	75		25															✓
	70	30					35	Lt Med	35	Lt Red	Cem Fn								
	90	N.S.																	
	1920	10		5			10	DK	75	✓	✓								
	10	N.S.																	
	20						15	OK	85	✓	Loose-cem Fn								
	50						10	Med	45	✓	✓	✓							
									45	LtGry	✓	✓							
	70								100	Lt Red	Loose Fn-med								
	2005						5	✓	95	✓	Loose-cem Fn-med								
	25	15					85	Med OK											
	45	N.S.																	
	2125	5					20	✓	75	Lt Red	Loose-cem Fn-med								
	35	N.S.																	
	50								100	✓	Loose-cem Fn Silty								
	70						40	Lt Med	60	✓	✓	✓	✓						
	90						20	✓	80	✓	Loose-cem Fn-med								
	2205						15	✓	85	✓	✓	✓	✓						
	09						5	✓	10	✓	✓	✓	85	Lt Gry	DNS				
	20	25					75	✓											
	35	100					Tr	✓											
	55	5		90			5	✓											
	75	35		35			10	✓	20	Lt Red	Cem Fn								
	90	10		90															
	2300	10		90															
	20			100			Tr	Med											
	32	100																	
	40	85			10	Lt Gry	5	Med											
	50	30			Tr	✓	10	✓					60	Lt Gry	DNS				
	65	70					5	✓					25	✓	✓				
	75	70			15	Gry	15	✓											
	85	75		5	15	✓	5	✓											
	90	85			10	✓	5	✓											
	2400	15			85	✓													
	10			100															
	35	90			10	Gry													
	50			95			5	Med											
	60	100																	

SAMPLE DESCRIPTION

DESCR. BY J S H

PAGE 5

DATE 25 July 47

VALLIANT PRINTING CO. ALBUQUERQUE—11210

COMPANY	WELL NO.	LEASE	COUNTY	STATE
Mc Quigg	1	Nels	Chaves	N.M.

DEPTH FROM	DEPTH TO	ANHY.	POLY.	SALT	NON-RED SHALE %	NON-RED SHALE DESCR.	RED SHALE %	RED SHALE DESCR.	SANDSTONE %	SANDSTONE DESCR.	GRANITE WASH %	GRANITE WASH DESCR.	DOLOMITE %	DOLOMITE COLOR	DOLOMITE DESCR.	LIMESTONE %	LIMESTONE COLOR	LIMESTONE DESCR.	MISCELLANEOUS
2460	2465	NS.																	
	75	70		20	10	Gry	Tr	med					Tr	LT Gry	DNS				
	85			100															
	2500	90					10	med											
	10	NS.																	
	15	70		20	10	Gry	Tr	✓											
	30			90	5	✓	5	✓											
	40	25											75	Butt	DNS	-P			
	45	10											90	✓	✓	✓			
	53	Tr											100	✓	✓				
	60												100	✓	✓				
	70												100	LT Duff LT Gry	✓				
	75	Tr											100	✓	✓				
	78												100	✓	✓				Oil show
	90	15											85	Gry	✓				✓ ✓
	98	90			10	Gry							Tr	✓	✓				
	2605	Tr											100	Br	✓				Oil show
	12	25											75	✓	✓				Slight oil show
	25	20											80	Dk Gry	✓				oil show
	27	90											10	✓	✓				
	35	55											45	Gry Br	✓				
	37	5											95	✓	✓				
	50	35											65	✓	✓				
	55	5											75	✓	✓				
	62	5							15	LT Gry	Crm Fn		80	✓	✓				
	80	10											90	✓	✓				Tr chert
	95	10											70	✓	✓				
	2702	100																	
	10	100																	
	15	20											80	Dk Gry	DNS				
	20												100	✓	✓				
	32	5											95	✓	✓				
	40	25											75	✓	✓				
	45	25											75	✓	✓				
	62	90											10	✓	✓				
	75	95											5	✓	✓				
	85	100																	
	95	10		90															

SAMPLE DESCRIPTION

PAGE 6

DESCR. BY JBH

DATE 25 July 47

VALLIANT PRINTING CO., ALBUQUERQUE—15310

COMPANY	WELL NO.	LEASE	COUNTY	STATE
Mc Quigg	1	Nels	Chaves	N.M.

DEPTH FROM	DEPTH TO	ANHY.	POLY.	SALT	NON-RED SHALE %	NON-RED SHALE DESCR.	RED SHALE %	RED SHALE DESCR.	SANDSTONE %	SANDSTONE DESCR.	GRANITE WASH %	GRANITE WASH DESCR.	DOLOMITE %	DOLOMITE COLOR	DOLOMITE DESCR.	LIMESTONE %	LIMESTONE COLOR	LIMESTONE DESCR.	MISCELLANEOUS
2795	2805	70		30															
	15	70			10	Gry							20	Br	DNS				
	20												100	–	✓				Oil show
	32												100	✓	✓				
	40	50											50	✓	✓				
	45	10											90	✓	✓				
	50	Tr											100	✓	✓				
	65												100	Br Gry	✓				
	75	10			Tr	Gry							90	✓	DNS Fx				
	83	70											30	–	DNS				
	88	20											80	Br	✓				
	93	Tr											100	✓	✓				
	2915															100	Br Gry	DNS Fx	
	20						5	Red								95	✓	DNS	
	25															100	Br	✓	
	45	N.S.																	
	50															100	Gry Br	✓	
	55															100	✓	✓	
	63	55														45	✓	✓	
	73	95														5	✓	✓	
	85	100																	
	3000	80		20															
	06	10														90	Buff	DNS	silty
	16															100	✓	✓	✓
	25	60														40	✓	Fx	
	30															100	Br Gry	✓	
	64															100	✓	✓	
	74															100	✓	✓	
	3125															100	LT Br	✓	
	40						15	LT								85	wh Br Gry	✓	Calcite xtls.
	46						5	✓								95	✓	✓	
	50						5	✓								95	✓	✓	
	55						5	✓								95	✓	✓	
	59						Tr	✓								100	✓	✓	
	62						Tr	✓								100	✓	✓	
	65						Tr	✓								100	✓	✓	
	77															100	Br	✓	
	80															100	✓	✓	

SAMPLE DESCRIPTION

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DESCR. BY J.R.H.

DATE 25 July 47

VALLIANT PRINTING CO. ALBUQUERQUE 14510

COMPANY	WELL NO.	LEASE	COUNTY	STATE
Mc Quigg	1	Nels	Chaves	N.M.

DEPTH FROM	DEPTH TO	ANHY.	POLY.	SALT	NON-RED SHALE %	NON-RED SHALE DESCR.	RED SHALE %	RED SHALE DESCR.	SANDSTONE %	SANDSTONE DESCR.	GRANITE WASH %	GRANITE WASH DESCR.	DOLOMITE %	DOLOMITE COLOR	DOLOMITE DESCR.	LIMESTONE %	LIMESTONE COLOR	LIMESTONE DESCR.	MISCELLANEOUS
3180	3184															100	LT Gry	FX	
	85															100	LT-DK Gry	DNS FX	
	92															100	"	"	
	94															100	LT Gry	FX	
	96															100	LT Gry	"	
	3200															100	"	DNS FX	
	03															100	LT Gry	"	
	10															100	LT-DK Gry	DNS	
	12	N.S.																	
	16															100	"	"	
	28															100	"	"	
	34															100	"	"	
	48															100	"	"	
	60															100	"	"	
	67															100	"	"	
	72															100	"	"	
	76															100	"	"	Silty
	79	30														70	"	"	
	83												100	Dk Gry	FX				
	86												100	"	"				
	92												100	LT Br	"				
	97												100	"	"				
	3302												100	"	"				
	07												100	"	"				
	10												100	"	"				
	14															100	LT Buff	FX	
	40															100	"	"	Fe stain
	50								90	wh	Loose med					10	Gry	DNS	
	54	95											5	Gry	DNS				
	58	100																	
	63	100																	
	65	100																	
	68	80							20	wh	Loose med								
	73	10							90	"	Loose med-coarse	subrounded							
	76	30											70	Dk Gry	FX-DNS				
	86												100	LT Br	DNS				
	89	50											50	Gry Br	"				
	93	70											30	"	"				

SAMPLE DESCRIPTION

DESCR. BY J H

PAGE 8

DATE 25 July 47

VALLIANT PRINTING CO. ALBUQUERQUE, N.M.

COMPANY	WELL NO.	LEASE	COUNTY	STATE
Mc Quigg	1	Nels	Chaves	N.M.

DEPTH FROM	DEPTH TO	ANHY.	POLY.	SALT	NON-RED SHALE %	NON-RED SHALE DESCR.	RED SHALE %	RED SHALE DESCR.	SANDSTONE %	SANDSTONE DESCR.	GRANITE WASH %	GRANITE WASH DESCR.	DOLOMITE %	DOLOMITE COLOR	DOLOMITE DESCR.	LIMESTONE %	LIMESTONE COLOR	LIMESTONE DESCR.	MISCELLANEOUS
3293	3398	60							30	wh	Loose med-coarse		10	Gy	DNS				
	35								100	"	Loose	med-coarse rounded							
	30				10	Gy			95	"	"	"	"	"	"				
	46								50	"	Loose med-coarse								
	44	N.S.																	
	47												100	Lt Br	DNS				
	50								75	wh	Loose med		25	"	"				Poor sample
	65								100	"	Loose med-coarse								F.G.'s
	68			40					60	Lt Red	Fn-med Loose-com								
	75	15					5	med	80	"	Fn-coarse Loose-com								
	90	15					Tr	"	85	"	"	"	"	"					
	95			100															
	98	70					15	med	65	Lt Red	Loose-com rounded Fn-coarse								
	3505						Tr	"	100	"	Loose	Fn-med							
	10	10		30			6		60	"	"	"	"	"	"				
	15	TD		Tr					100	"	"	"	"	"	"				